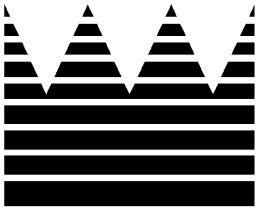

Models RD30 & RC25

Remote Slim-Line Slush Freezer

Original Operating Instructions

051060-M

11/99 (Original Publication)
(Updated 6/11/12)

Complete this page for quick reference when service is required:

Taylor Distributor: _____

Address: _____

Phone: _____

Service: _____

Parts: _____

Date of Installation: _____

Information found on the data label:

Model Number: _____

Serial Number: _____

Electrical Specs: Voltage _____ Cycle _____

Phase _____

Maximum Fuse Size: _____ A

Minimum Wire Ampacity: _____ A

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051060–M

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Taylor Company
750 N. Blackhawk Blvd.
Rockton, IL 61072

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Note: Continuing research results in steady improvements; therefore, information in this manual is subject to change without notice.

Note: Only instructions originating from the factory or its authorized translation representative(s) are considered to be the original set of instructions.

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Rockton, IL 61072

Section 1 To the Installer

The following are general installation instructions. For complete installation details, please see the check out card.

Installer Safety

In all areas of the world, equipment should be installed in accordance with existing local codes. Please contact your local authorities if you have any questions.

Care should be taken to ensure that all basic safety practices are followed during the installation and servicing activities related to the installation and service of Taylor equipment.

- Only authorized Taylor service personnel should perform installation and repairs on the equipment.
- Authorized service personnel should consult OSHA Standard 29CFRI910.147 or the applicable code of the local area for the industry standards on lockout/tagout procedures before beginning any installation or repairs.
- Authorized service personnel must ensure that the proper PPE is available and worn when required during installation and service.
- Authorized service personnel must remove all metal jewelry, rings, and watches before working on electrical equipment.

The main power supply(s) to the freezer must be disconnected prior to performing any repairs. Failure to follow this instruction may result in personal injury or death from electrical shock or hazardous moving parts as well as poor performance or damage to the equipment.

Note: All repairs must be performed by an authorized Taylor Service Technician.

This unit has many sharp edges that can cause severe injuries.

Site Preparation

Review the area the unit is to be installed in before uncrating the unit, making sure that all possible hazards the user or equipment may come into have been addressed.

For Indoor Use Only: This unit is designed to operate indoors, under normal ambient temperatures of 70°-75°F (21°-24°C). The freezer has successfully performed in high ambient temperatures of 104°(40°C) at reduced capacities.

This unit must **NOT** be installed in an area where a water jet or hose can be used. **NEVER** use a water jet or hose to rinse or clean the unit. Failure to follow this instruction may result in electrocution.

This unit must be installed on a level surface to avoid the hazard of tipping. Extreme care should be taken in moving this equipment for any reason. Two or more persons are required to safely move this unit. Failure to comply may result in personal injury or equipment damage.

Uncrate the unit and inspect it for damage. Report any damage to your Taylor Distributor.

This piece of equipment is made in the USA and has USA sizes of hardware. All metric conversions are approximate and vary in size.

Electrical Connections

In the United States, this equipment is intended to be installed in accordance with the National Electrical Code (NEC), ANSI/NFPA 70-1987. The purpose of the NEC code is the practical safeguarding of persons and property from hazards arising from the use of electricity. This code contains provisions considered necessary for safety. In all other areas of the world, equipment should be installed in accordance with the existing local codes. Please contact your local authorities.

FOLLOW YOUR LOCAL ELECTRICAL CODES!

Each unit requires one power supply for each data label on the unit. Check the data label(s) on the freezer for branch circuit overcurrent protection or fuse, circuit ampacity, and other electrical specifications. Refer to the wiring diagram provided inside of the electrical box for proper power connections.

CAUTION: THIS EQUIPMENT MUST BE PROPERLY GROUNDED! FAILURE TO DO SO CAN RESULT IN SEVERE PERSONAL INJURY FROM ELECTRICAL SHOCK!

This unit is provided with an equipotential grounding lug that is to be properly attached to the rear of the frame by the authorized installer. The installation location is marked by the equipotential bonding symbol (5021 of IEC 60417-1) on both the removable panel and the equipment's frame.

- Stationary appliances which are not equipped with a power cord and a plug or another device to disconnect the appliance from the power source must have an all-pole disconnecting device with a contact gap of at least 3 mm installed in the external installation.
- Appliances that are permanently connected to fixed wiring and for which leakage currents may exceed 10 mA, particularly when disconnected or not used for long periods, or during initial installation, shall have protective devices such as a GFI, to protect against the leakage of current, installed by the authorized personnel to the local codes.
- Supply cords used with this unit shall be oil-resistant, sheathed flexible cable not lighter than ordinary polychloroprene or other equivalent synthetic elastomer-sheathed cord (Code designation 60245 IEC 57) installed with the proper cord anchorage to relieve conductors from strain, including twisting, at the terminals and protect the insulation of the conductors from abrasion.

Beater Rotation

Beater rotation must be clockwise as viewed looking into the freezing cylinder.

Note: The following procedures must be performed by an authorized Taylor service technician.

To correct the rotation on a three–phase unit, interchange any two incoming power supply lines at freezer main terminal block only.

To correct rotation on a single–phase unit, change the leads inside the beater motor. (Follow the diagram printed on the motor.)

Electrical connections are made directly to the splice box. The splice box is located behind the right side panel.

Refrigerant

In consideration of our environment, Taylor proudly uses only earth friendly HFC refrigerants. The HFC refrigerant used in this unit is R404A. This refrigerant is generally considered non-toxic and non-flammable, with an Ozone Depleting Potential (ODP) of zero (0).

However, any gas under pressure is potentially hazardous and must be handled with caution.

NEVER fill any refrigerant cylinder completely with liquid. Filling the cylinder to approximately 80% will allow for normal expansion.

Use only R134a refrigerant that conforms to the AHI standard 700 specification. The use of any other refrigerant may expose users and operators to unexpected safety hazards.

Refrigerant liquid sprayed onto the skin may cause serious damage to tissue. Keep eyes and skin protected. If refrigerant burns should occur, flush immediately with cold water. If burns are severe, apply ice packs and contact a physician immediately.

Taylor reminds technicians to be cautious of government laws regarding refrigerant recovery, recycling, and reclaiming systems. If you have any questions regarding these laws, please contact the factory Service Department.

WARNING: R404A refrigerant used in conjunction with polyolester oils is extremely moisture absorbent. When opening a refrigeration system, the maximum time the system is open must not exceed 15 minutes. Cap all open tubing to prevent humid air or water from being absorbed by the oil.

Refrigeration Charging and Line Construction

The dispensing unit is shipped with a refrigerant holding charge that is sufficient enough to prevent moisture contamination (8 oz./227 g. R404A). This holding charge will become part of the total system charge.

The condensing unit is shipped with the total amount of refrigerant required for a typical installation of 75 ft. or less with a single dispenser. For other installation configurations, use the following chart for line sizing and for adding required refrigerant.

Recommended System Refrigerant Charge

Domestic

Suction Line Length	Dispenser	Required Charge
Less than 75 ft.	Single	10 lb.
More than 75 ft.	Single	12 lb. (add 2 lb.)
Less than 75 ft.	Dual	13 lb. (add 3 lb.)
More than 75 ft.	Dual	15 lb. (add 5 lb.)

International

Suction Line Length	Dispenser	Required Charge
Less than 22.8 m	Single	4.5 kg
More than 22.8 m	Single	5.4 kg (add 0.91 kg)
Less than 22.8 m	Dual	5.9 kg (add 1.4 kg)
More than 22.8 m	Dual	6.8 kg (add 2.3 kg)

Note: Maximum line length is 150 ft. (45.7 m).
To meet individual installation requirements, lines must be purchased and constructed locally.

Line Size

Liquid Line – Single or dual dispensers require 3/8" refrigerant grade copper tubing (hard or soft).

Note: Insulating the liquid line is recommended if it is exposed to high ambient conditions. This will reduce heat accumulation and prevent the formation of flash gas in the liquid line.

Single Dispensing Installations

Suction Line – Less than 75 ft. (22.8 m) total line length requires 5/8" refrigerant grade copper tubing (hard or soft). Maximum 5/8" tubing length is 75 ft. (22.8 m).

Note: Suction lines must be insulated.

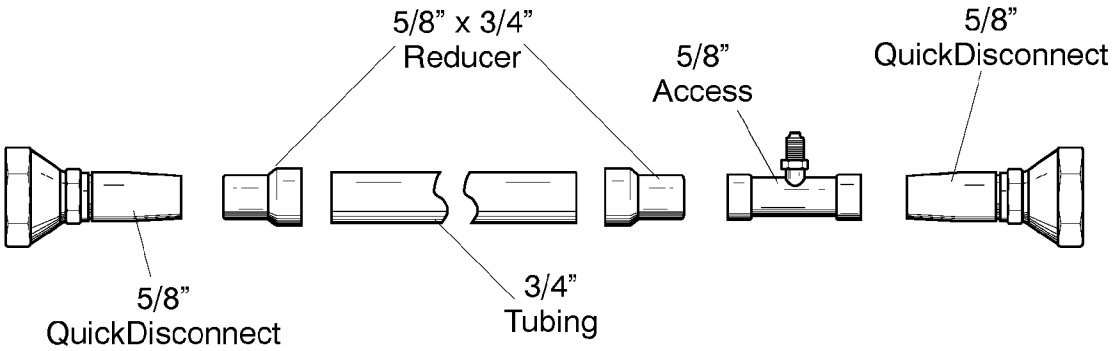
Suction Line – More than 75 ft. (22.8 m) total line length requires 3/4" refrigerant grade copper tubing (hard or soft). Maximum tubing length is 150 ft. (45.7 m).

Dual Dispensing Installations (One Condenser, Two Dispensers)

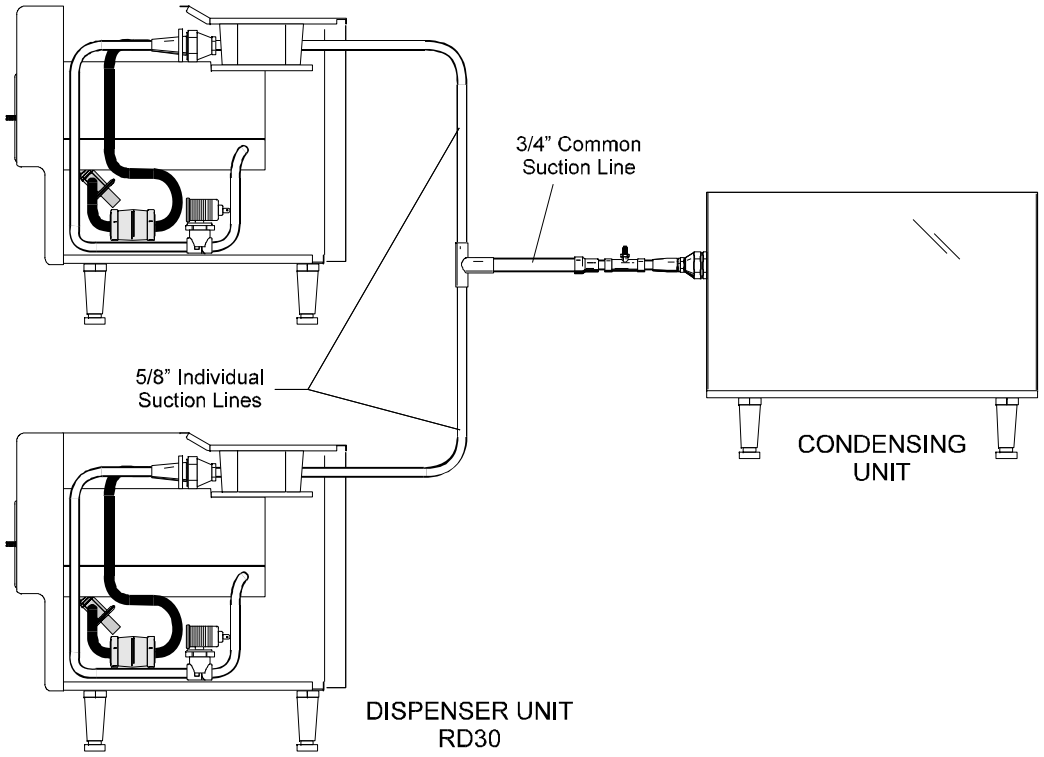
Individual Suction Line – Requires 5/8" refrigeration grade copper tubing (hard or soft) from each dispenser to the common suction tube.

Common Suction Line – Requires 3/4" refrigeration grade copper tubing.

Note: Lines must be insulated and requires a 5/8" x 3/4" reducer fitting at the quick disconnect connections. See the diagram below.



Note: Use 5/8" tubing to attach the quick disconnects to the other fittings.



Note: 5/8" individual line lengths are not to exceed 75 ft. (22.8 m) maximum length each. Total line length is not to exceed 150 ft. (45.7 m). 5/8" line + 5/8" line + 3/4" line = 150 ft. or less.

Installation

Step 1
Install refrigeration lines from the dispenser to the condensing unit. Do not create oil traps.

Note: For proper oil return, installation of horizontal suction lines are to be sloped downward in the direction of the condensing unit. The slope must be a minimum 1/4" (.64 cm.) angle per 10 ft. (3.048 m.) of line length.

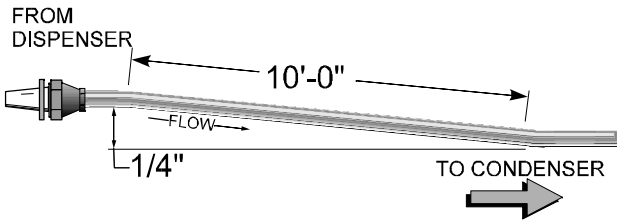


Figure 1

Normally, any straight run of tubing must be supported near each end of the run. Long runs require additional supports. As a guide, 3/8" to 3/4" copper should be supported every 5 ft. When changing directions, no corner should be left unsupported. Supports should be placed a maximum of 2 ft. in each direction from the corner. If soft copper tube is used, make sure it is not kinked or flattened. If hard drawn copper tubing is used, use only long radius elbows.

Step 2
Braze the supplied quick connect/disconnect couplings on the dispenser end of the refrigeration lines. Couplings are supplied with the dispenser.

Step 3
Braze the quick connect/disconnect couplings and access tees on the condensing unit end of the refrigeration lines. Couplings and access tees are supplied with the unit.

Note: Wrap a wet cloth around the brass coupling bodies to prevent heat damage to the seal.

Step 4
Test the field constructed lines for leaks.

Step 5
Evacuate the field constructed refrigerant lines using the access fittings brazed on the condensing end of the refrigeration lines.

Step 6
When the evacuation process is complete, relieve the vacuum with 4 oz. (113 g.) of HP62 refrigerant per line, for a total of 8 oz. (227 g.) This procedure will prevent moisture contamination during dispenser and condensing unit connection and complete the total charge.

Refrigeration Connections

Connect the refrigerant line quick connect/disconnect couplings to the mating quick connect/disconnect couplings on the dispensing and condensing unit.

Step 1
Remove the shipping caps from the quick connect/disconnect coupling on the dispensing unit.

Step 2
Thoroughly clean and lubricate the mating surfaces of the quick connect/disconnects.

Note: Use polyolester oil to lubricate the surfaces.

Step 3
Manually thread the coupling halves together to insure proper mating of the threads.

Step 4
Using proper sized wrenches, tighten the coupling halves until the round, flat surfaces of inner coupling bodies completely depress one another.

Step 5
Once the flat surfaces are completely depressed, tighten the couplings an additional 1/4 turn. This step is necessary to insure that the knife edge of the seal seats into the brass seat of the coupling halves, forming a leak-proof joint (metal seal).

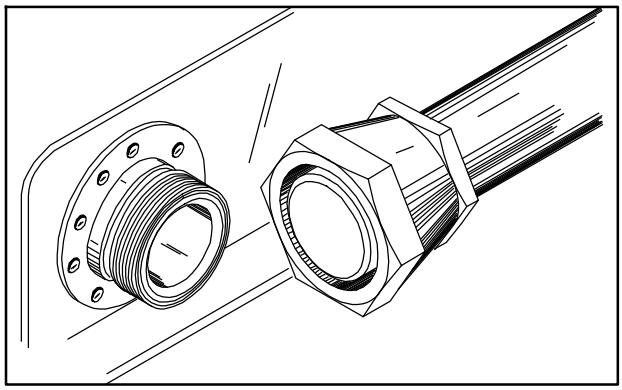


Figure 2

Step 6
Check all connections for leaks.

Step 7
Insulate all exposed suction line tubing and fittings.

Step 8
Set the pump down switch located in the condensing unit. For indoor condensing unit application:

Set cut in at 30 PSIG (207 kPa).
Set cut out at 5 PSIG (34 kPa).

For outdoor condensing unit application:

Set cut in at 20 PSIG (138 kPa).
Set cut out at 0 PSIG (0 kPa).

Pump down pressure readings are to be taken at the refrigeration line access fittings at the condensing unit.

Set Up Procedures

Standard Fill Module

Step 1
Connect the product supply line to the 1/4" barbed fitting on the fill module. Adjust the fill system pressure to deliver product to the hopper at 1.5 to 2.5 oz. (42.5 to 70.9 g) per second. (Approximately 15 to 20 PSIG [103–138 kPa] for most products.)

Step 2
Lubricate, assemble, sanitize and prime the dispenser as outlined in the Assembly section of this manual.

Step 3
Place the fill switch in the "ON" position. Allow the product to fill the cylinder and the hopper until the mix level float is satisfied.

Step 4
Place the power switch in the "AUTO" position.

Step 5
To observe the suction pressure, attach refrigeration gauges to the suction access fitting in the dispenser. Pressures should read approximately 32 psi. (221 kPa) for non–alcoholic application and 28 psi. (193 kPa) for alcoholic application.

Note: Connection to the *condensing* unit suction access can give an improper reading.

Step 6
Allow the dispenser to run until the condensing unit cycles off. Verify the proper pump down pressure switch setting. See Step 8 of "Refrigeration Connections" (page 6).

Note: Pump down pressure readings are to be taken at the refrigeration line access fittings near the condensing unit.

Step 7
If necessary, adjust viscosity to produce satisfactory product. Adjustments are made by turning the viscosity adjustment screw (located on the front panel) clockwise for a thicker product or counterclockwise for a thinner product.

Units Equipped With Post Mix Valve

Step 1
Connect syrup and water lines.

Note: Adjust the syrup supply pressure to maintain 60 PSIG. Water pressure minimum 40 PSIG, maximum 100 PSIG, may require regulated water supply.

Step 2
Turn the "FILL" switch in the front of the RD30 to the "ON" position.

Step 3
Press and hold the area on the front of the post mix valve marked "PUSH" to prime the fill system. Priming is required until the B.I.B. switch and the float switch are both satisfied. Priming is complete when product will flow without pressing the "PUSH" button.

Step 4
To adjust either the syrup or water flow rate, turn the flow adjustment screw clockwise to increase flow, or counterclockwise to decrease flow. Adjust the screws until the desired brix is obtained. The flow rate should be 1.5 to 2.5 oz. (43 fl. ml.) per second.

Note: Both syrup and water flow adjustment screws are located inside the post mix valve cover. Viewed from the front, the syrup adjustment screw is on the right and water adjustment is on the left.

Section 2 To the Operator

The freezer you have purchased has been carefully engineered and manufactured to give you dependable operation. The Taylor Model RD30/RC25, when properly operated and cared for, will produce a consistent quality product. Like all mechanical products, this machine will require cleaning and maintenance. A minimum amount of care and attention is necessary if the operating procedures outlined in this manual are followed closely.

This Operator's Manual should be read before operating or performing any maintenance on your equipment.

Your Model RD30/RC25 will NOT eventually compensate and correct for any errors during the set-up or filling operations. Thus, the initial assembly and priming procedures are of extreme importance. It is strongly recommended that all personnel responsible for the equipment's operation thoroughly read this manual.

If you require technical assistance, please contact your local authorized Taylor Distributor.

Note: Warranty is valid only if the parts are authorized Taylor parts, purchased from an authorized Taylor Distributor, and the required service work is provided by an authorized Taylor service technician. Taylor reserves the right to deny warranty claims on equipment or parts if non-approved parts or refrigerant were installed in the machine, system modifications were performed beyond factory recommendations, or it is determined that the failure was caused by neglect or abuse.

Note: Constant research results in steady improvements; therefore, information in this manual is subject to change without notice.

If the crossed out wheeled bin symbol is affixed to this product, it signifies that this product is compliant with the EU Directive as well as other similar legislation in effect after August 13, 2005. Therefore, it must be collected separately after its use is completed, and cannot be disposed as unsorted municipal waste.

The user is responsible for returning the product to the appropriate collection facility, as specified by your local code.

For additional information regarding applicable local laws, please contact the municipal facility and/or local distributor.

Compressor Warranty Disclaimer

The refrigeration compressor(s) on this machine are warranted for the term indicated on the warranty card accompanying this machine. However, due to the Montreal Protocol and the U.S. Clean Air Act Amendments of 1990, many new refrigerants are being tested and developed, thus seeking their way into the service industry. Some of these new refrigerants are being advertised as drop-in replacements for numerous applications. It should be noted that, in the event of ordinary service to this machine's refrigeration system, **only the refrigerant specified on the affixed data label should be used**. The unauthorized use of alternate refrigerants will void your compressor warranty. It will be the owner's responsibility to make this fact known to any technician he employs.

It should also be noted that Taylor does not warrant the refrigerant used in its equipment. For example, if the refrigerant is lost during the course of ordinary service to this machine, Taylor has no obligation to either supply or provide its replacement either at billable or unbillable terms. Taylor does have the obligation to recommend a suitable replacement if the original refrigerant is banned, obsoleted, or no longer available during the five year warranty of the compressor.

Taylor will continue to monitor the industry and test new alternates as they are being developed. Should a new alternate prove, through our testing, that it would be accepted as a drop-in replacement, then the above disclaimer would become null and void. To find out the current status of an alternate refrigerant as it relates to your compressor warranty, call the local Taylor Distributor or the Taylor Factory. Be prepared to provide the Model/Serial Number of the unit in question.

Section 3 Safety

We at Taylor Company are concerned about the safety of the operator when he or she comes in contact with the freezer and its parts. Taylor has gone to extreme efforts to design and manufacture built–in safety features to protect both you and the service technician. As an example, warning labels have been attached to the freezer to further point out safety precautions to the operator.

IMPORTANT - Failure to adhere to the following safety precautions may result in severe personal injury or death. Failure to comply with these warnings may damage the machine and its components. Component damage will result in part replacement expense and service repair expense.

DO NOT operate the freezer without reading this Operator Manual. Failure to follow this instruction may result in equipment damage, poor freezer performance, health hazards, or personal injury.

Per IEC 60335–1 and its part 2 standards, “This appliance is to be used only by trained personnel. It is not intended for use by children or people with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless given supervision or instruction concerning the use of the appliance by a person responsible for their safety.”

This unit is provided with an equipotential grounding lug that is to be properly attached to the rear of the frame by the authorized installer. The installation location is marked by the equipotential bonding symbol (5021 of IEC 60417-1) on both the removable panel and the equipment’s frame.

DO NOT use a water jet to clean or rinse the freezer. Failure to follow these instructions may result in serious electrical shock.

- **DO NOT** operate the freezer unless it is properly grounded.
- **DO NOT** operate the freezer with larger fuses than specified on the freezer data label.
- All repairs must be performed by an authorized Taylor service technician. The main power supplies to the machine must be disconnected prior to performing any repairs.
- Cord Connected Units: Only Taylor authorized service technicians may install a plug on this unit.
- Stationary appliances which are not equipped with a power cord and a plug or another device to disconnect the appliance from the power source must have an all-pole disconnecting device with a contact gap of at least 3 mm installed in the external installation.
- Appliances that are permanently connected to fixed wiring and for which leakage currents may exceed 10 mA, particularly when disconnected or not used for long periods, or during initial installation, shall have protective devices such as a GFI, to protect against the leakage of current, installed by the authorized personnel to the local codes.
- Supply cords used with this unit shall be oil-resistant, sheathed flexible cable not lighter than ordinary polychloroprene or other equivalent synthetic elastomer-sheathed cord (Code designation 60245 IEC 57) installed with the proper cord anchorage to relieve conductors from strain, including twisting, at the terminals and protect the insulation of the conductors from abrasion.

Failure to follow these instructions may result in electrocution. Contact your local authorized Taylor Distributor for service.

110824

- **DO NOT** allow untrained personnel to operate this machine.
- **DO NOT** operate the freezer unless all service panels and access doors are restrained with screws.
- **DO NOT** remove any internal operating parts (examples: freezer door, beater, scraper blades, etc.) unless all control switches are in the OFF position.

Failure to follow these instructions may result in severe personal injury to fingers or hands from hazardous moving parts.

This unit has many sharp edges that can cause severe injuries.

- **DO NOT** put objects or fingers in the door spout. This may contaminate the product and cause severe personal injury from blade contact.
- **USE EXTREME CAUTION** when removing the beater asssembly. The scraper blades are very sharp.

This freezer must be placed on a level surface. Failure to comply may result in personal injury.

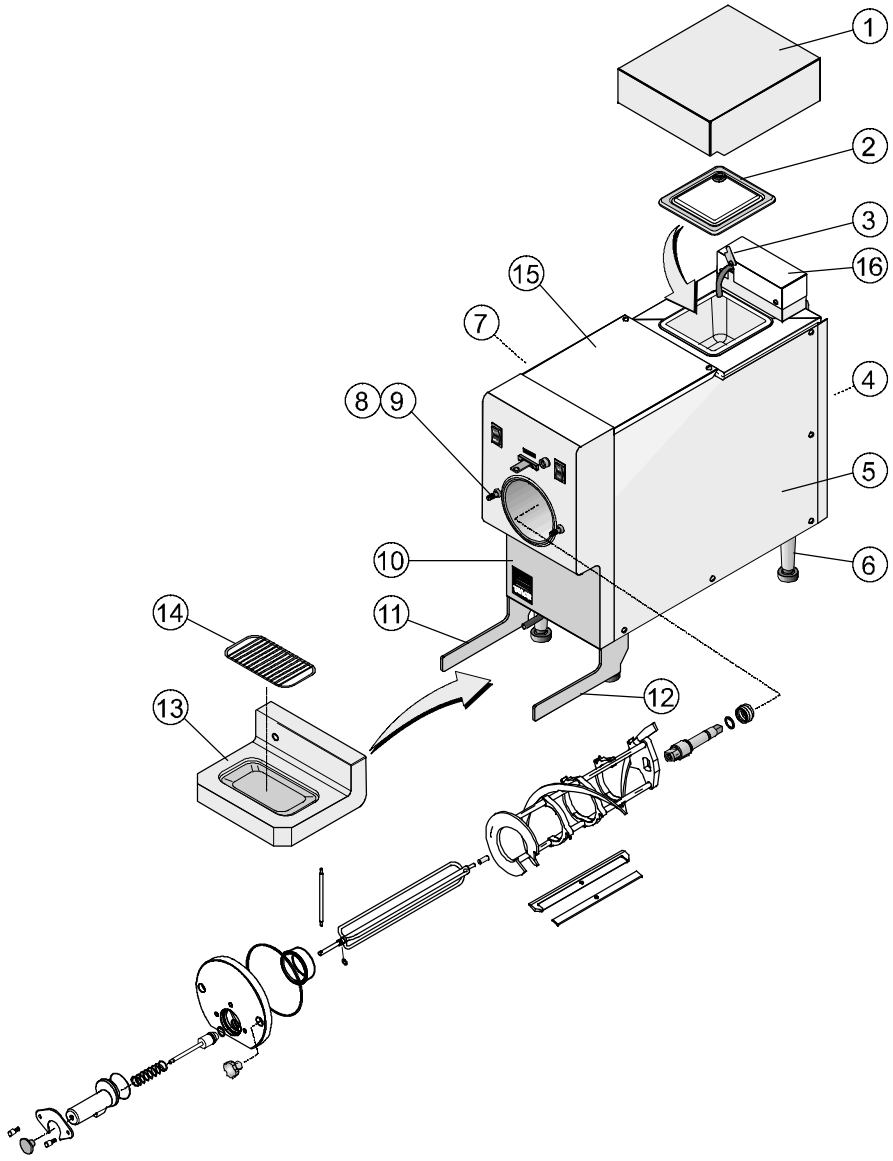
Cleaning and sanitizing schedules are governed by your state or local regulatory agencies and must be followed accordingly. Please refer to the cleaning section of this manual for the proper procedure to clean this unit.

For Indoor Use Only: This unit is designed to operate indoors, under normal ambient temperatures of 70° - 75°F (21° - 24°C). The freezer has successfully performed in high ambient temperatures of 104°(40°C) at reduced capacities.

NOISE LEVEL: Airborne noise emission does not exceed 78 dB(A) when measured at a distance of 1.0 meter from the surface of the machine and at a height of 1.6 meters from the floor.

Section 4 Operator Parts Identification

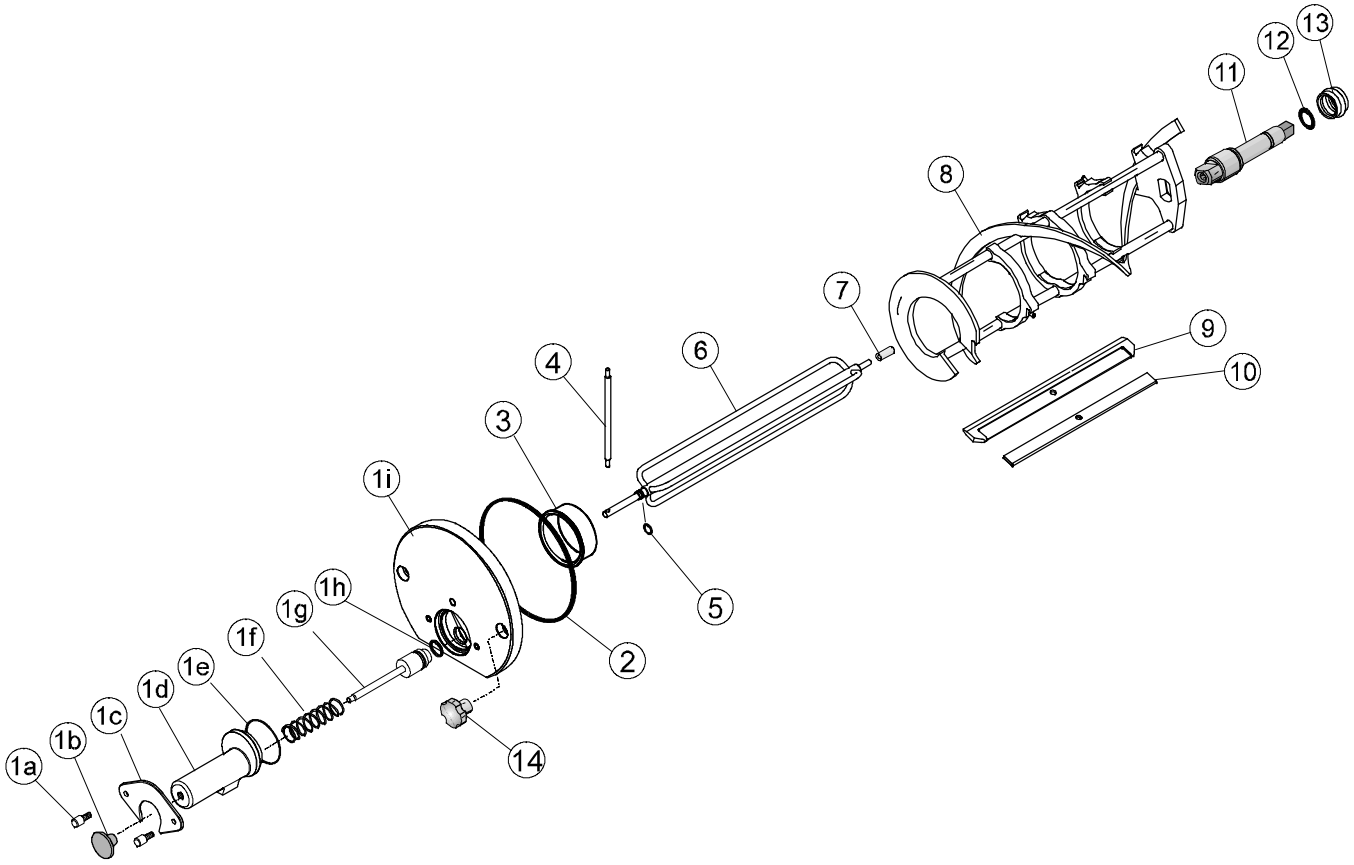
Model RD30



ITEM	DESCRIPTION	PART NO.
1	Cover-Rear	049201
2	Cover-Hopper	049081
3	Retainer-Clip	049419
4	Panel A.-Rear	X48983
5	Panel-Side-Right	048977
6	Leg A.-4"-3/8-16 Stud w/Cap	X43408
7	Panel-Side-Left	048975
8	Stud-Freezer	034035

ITEM	DESCRIPTION	PART NO.
9	Washer-Freezer Stud	049032
10	Panel A.-Front	X49760
11	Support-Tray-Left	049056
12	Support-Tray-Right	049057
13	Tray A.-Drip	X49182
14	Shield-Splash	049203
15	Cover-Front-Upper	049162
16	Cover A.-Solenoid	X49396

Beater Door Assembly



ITEM	DESCRIPTION	PART NO.
1	Door Assembly-Complete	X48768
1a	Screw-1/4-20 x 9/16 Thumb	047632
1b	Knob-Draw Valve-Black Plastic	047358
1c	Plate-Draw Spout Mounting	049275
1d	Spout-Door Zero Waste	049276
1e	O-Ring-2.375 OD x 1/16 W	046830
1f	Spring-Comp. - .845 x .055 x 3.5	047357
1g	Valve-Draw Zero Waste	047353
1h	O-Ring-7/8 OD x .103 W	014402
1i	Door A.-Partial	X50172
2	O-Ring 5.5" OD x 5.234 ID x .13	049077
3	Bearing-Front	013116

ITEM	DESCRIPTION	PART NO.
4	Arm-Torque	014500
5	O-Ring .291 ID x .080 W	018550
6	Torque Assembly	X49022
7	Bearing-Guide	014496
8	Beater A.-7 Qt.-1 Pin Support	X46233
9	Blade-Scraper-Plastic	046237
10	Clip-Scraper Blade	046238
11	Shaft-Beater	035418
12	O-Ring 7/8 OD x .139 W	025307
13	Seal-Drive Shaft	032560
14	Nut-Stud	045644

Note: Optional Door Assembly X50654 has a larger draw valve, spout and door port for thick product.

Section 5 Important: To the Operator

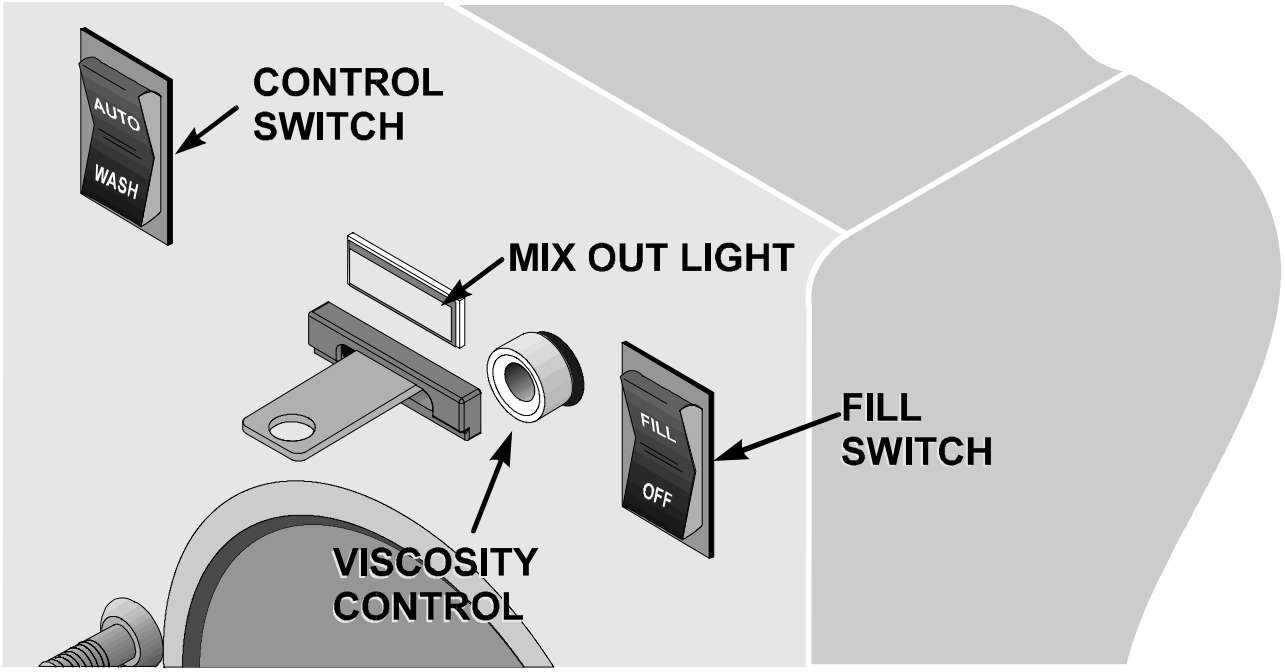


Figure 3

Control Switch

The control switch is located on the front of the machine. The center position is “OFF”. The down position is the “WASH” mode and activates the beater motor only. The up position is the “AUTO” mode. The “AUTO” mode activates the beater motor and enables refrigeration when the fill switch is in the “ON” position.

Fill Switch

The fill switch is located on the front of the machine. The “ON” position enables refrigeration when the control switch is in the “AUTO” position. The “ON” position enables the fill module to replenish and maintain product levels in the freezing cylinder and in the hopper. The “OFF” position terminates the fill function. The refrigeration system is disabled when the fill switch is in the “OFF” position.

Mix Out Light

A mix out indicating light is located on the front panel. When the light is lit, it indicates that the hopper is empty and the mix supply must be replenished. When the indicator lights, refrigeration is automatically disabled to prevent component damage. The beater motor continues to run.

Viscosity Control

The viscosity adjustment screw is located on the front of the unit. The viscosity (thickness) of the slush can be adjusted by turning the adjustment screw clockwise for a thicker product or counterclockwise for a thinner product.

Section 6 Operating Procedures

We begin our instructions at the point where the parts are disassembled and laid out to dry from the previous night's cleaning.

The following procedures will explain how to assemble the parts into the freezer, sanitize them, and prime the freezer with fresh product.

If you are disassembling the machine for the first time or need information to get to this starting point in our instructions, turn to "Disassembly" on page 21, and start there.

Assembly

MAKE SURE THE CONTROL SWITCH IS IN THE OFF POSITION. Failure to do so may result in personal injury or component damage.

Note: When lubricating parts, use an approved food grade lubricant (example: Taylor Lube HP). Every three months discard rubber parts and install new rubber parts.

Step 1
Install the beater drive shaft. Lubricate the o-ring groove. Slide the o-ring into the first groove on the drive shaft. Lubricate the groove, o-ring and shaft portion that comes in contact with the rear shell bearing on the beater drive shaft. **DO NOT** lubricate the square end of the drive shaft.

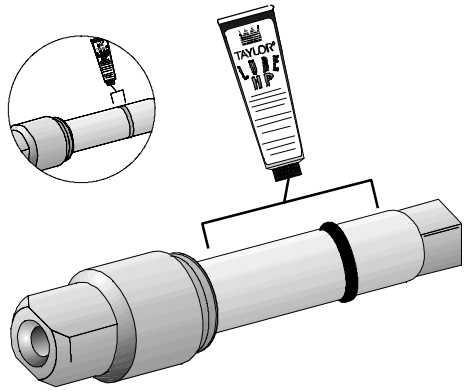


Figure 4

Slide the seal over the shaft until it snaps into the groove. Fill the inside portion of the seal with lubricant and evenly lubricate the flat side of the seal that fits onto the rear shell bearing.

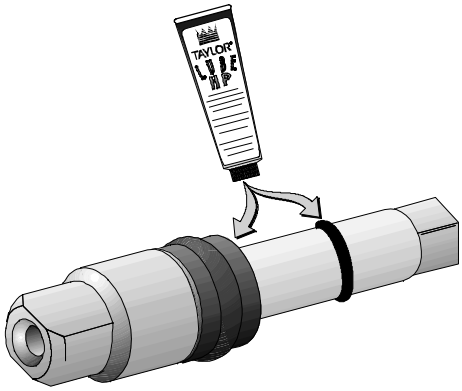


Figure 5

Install the drive shaft into the freezing cylinder, square end first. The drive shaft seal must fit securely over the rear shell bearing. Be certain the drive shaft fits into the drive coupling without binding.

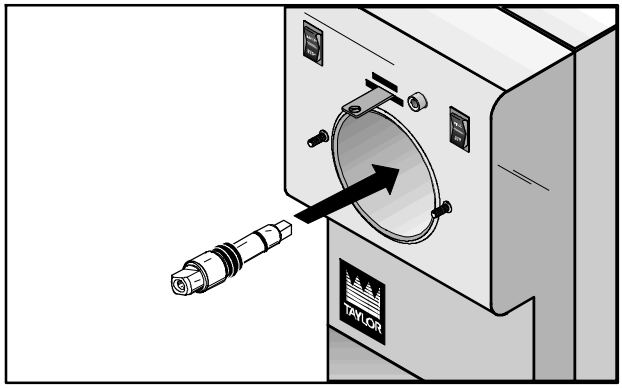


Figure 6

Step 2
Install the beater assembly. First check scraper blades for any nicks or signs of wear. If any nicks are present or if the blade is worn, replace both blades.

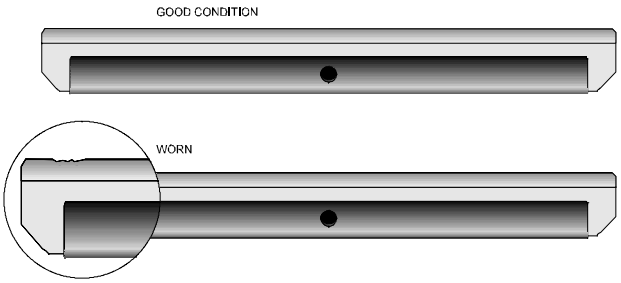


Figure 7

If blades are in good condition, install the scraper blade clip over the scraper blade. Place the rear scraper blade over the rear holding pin (knife edge to the outside). Holding the blade on the beater, turn it over and install the front blade the same way.

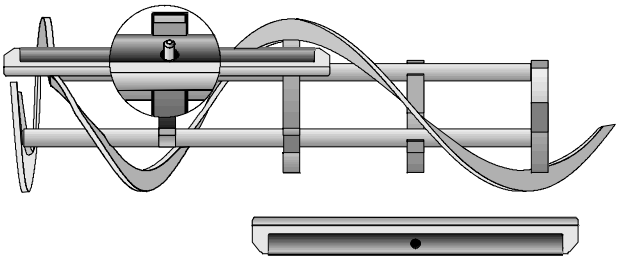


Figure 8

Holding the blades in position, insert the beater assembly into the freezing cylinder, and slide the assembly into position over the drive shaft. Turn the beater slightly to be certain that the beater is properly seated.

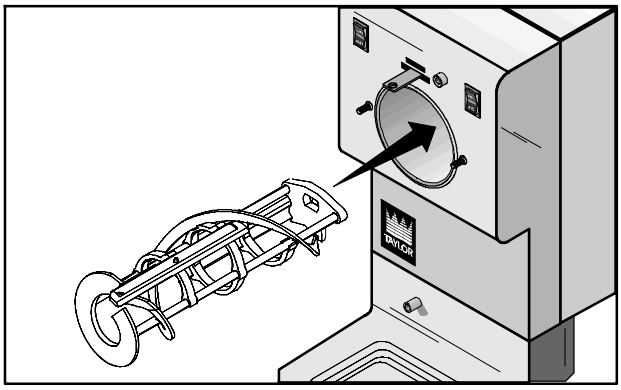


Figure 9

When in position, the beater will not protrude beyond the front of the freezing cylinder.

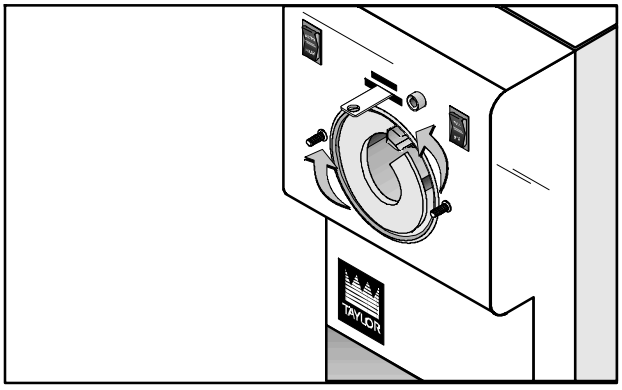


Figure 10

Step 3
Install the torque rotor. Install the plastic guide bearing on the short end of the torque rotor. Slide the o-ring into the groove on the long end of the torque rotor and lubricate the o-ring. **Do not** lubricate the guide bearing.

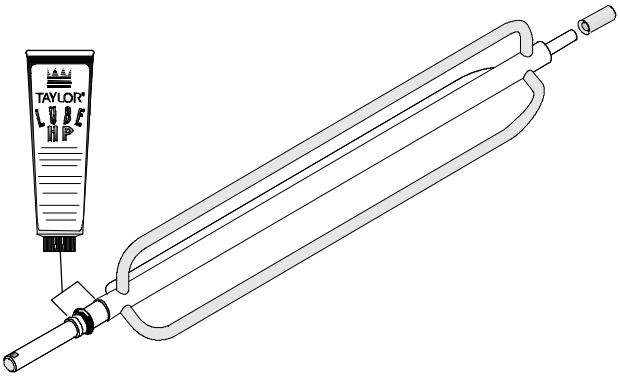


Figure 11

Insert the torque rotor (guide bearing end first) into the pilot hole in the center of the drive shaft. The hole in the torque rotor shaft should be rotated to the 12 o'clock position.

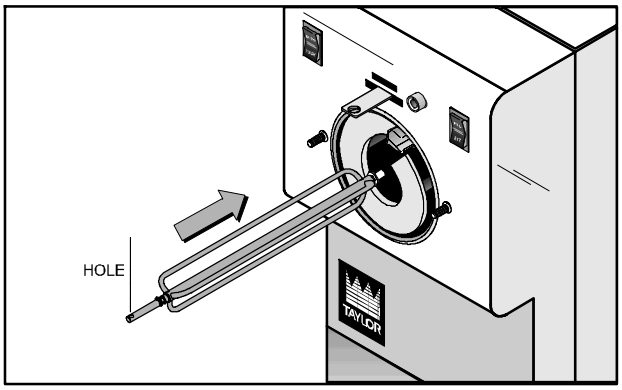


Figure 12

Step 4
Install the freezer door. Slide the draw valve o-ring into the groove on the draw valve and lubricate the o-ring.

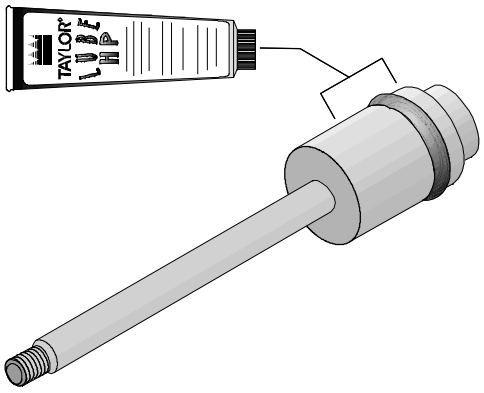


Figure 13

Place the draw valve spring over the shaft end on the draw valve.

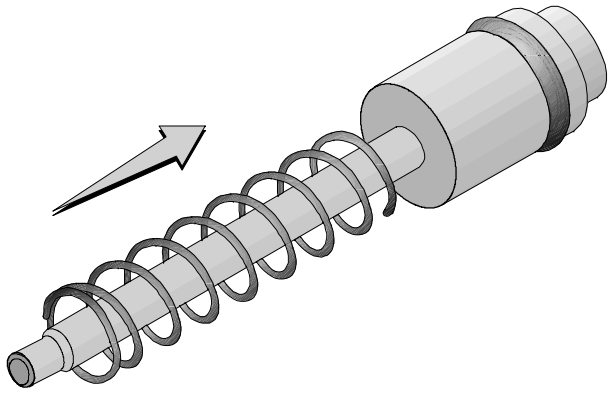


Figure 14

Insert the draw valve and spring into the door spout until the threaded end of the shaft passes through the hole in the end of the door spout. Thread the draw valve knob onto the end of the draw valve shaft.

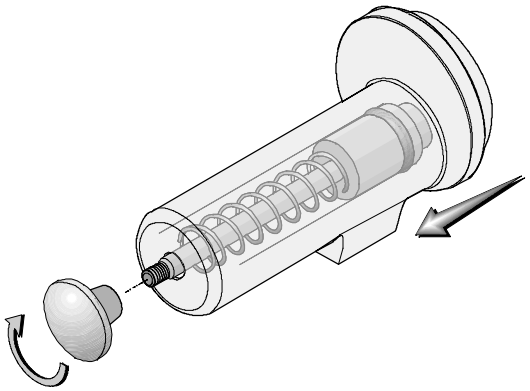


Figure 15

Place the door spout seal o-ring into the groove in the door and lubricate the components.

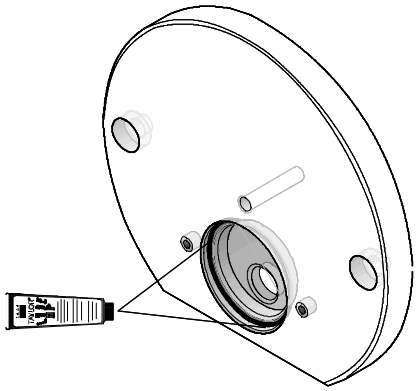


Figure 16

Align the draw spout assembly with the door. Place the draw spout mounting plate over the draw spout assembly and align the holes.

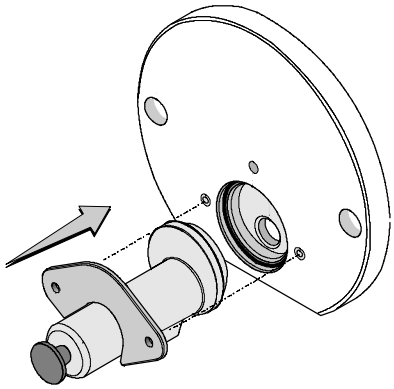


Figure 17

Using the thumb screws, fasten the draw spout assembly and draw spout mounting plate to the door.

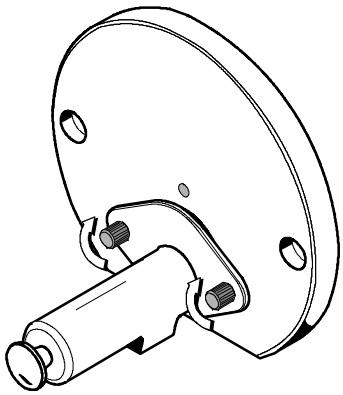


Figure 18

Place the large o-ring into the groove on the back side of the door and lubricate the installed o-ring.

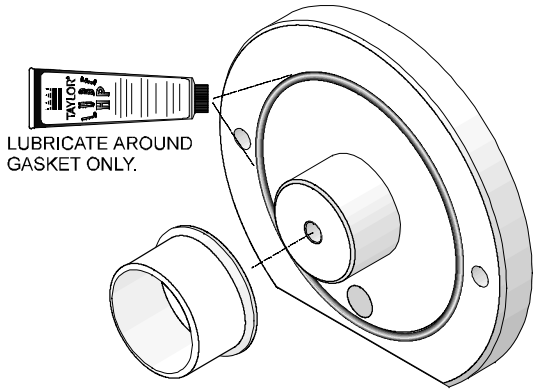


Figure 19

Place the door bearing onto the hub on the back side of the door with the flanged end of the bearing facing the door.

Note: Do not lubricate the door bearing.

Step 5
Install the freezer door. Position the door on the freezer studs at the front of the freezing cylinder. Press the door firmly into place.

Note: The torque rotor will protrude through the hole in the center of the door.

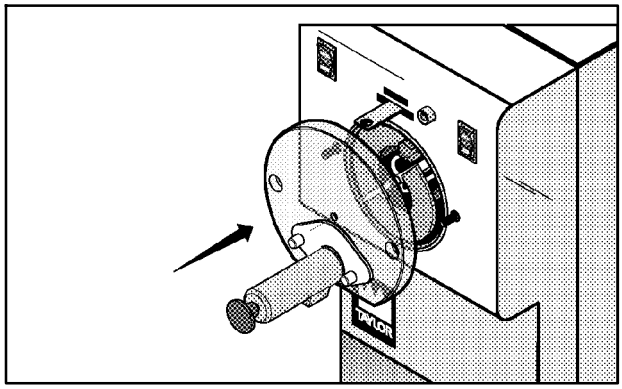


Figure 20

Step 6
Install the handscrews on the studs. Tighten the screws equally, using a criss-cross pattern. **Do not overtighten the handscrews.**

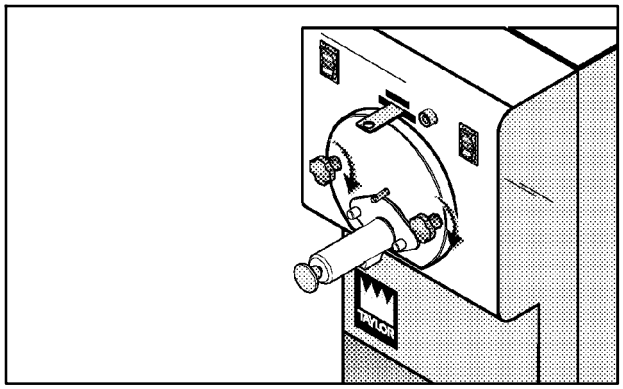


Figure 21

Step 7
Install the torque arm. Position the torque arm by inserting it through the slot in the torque switch arm and down into the hole in the torque rotor which protrudes from the door. Verify proper installation by moving the torque rotor back and forth to be sure it moves freely and easily.

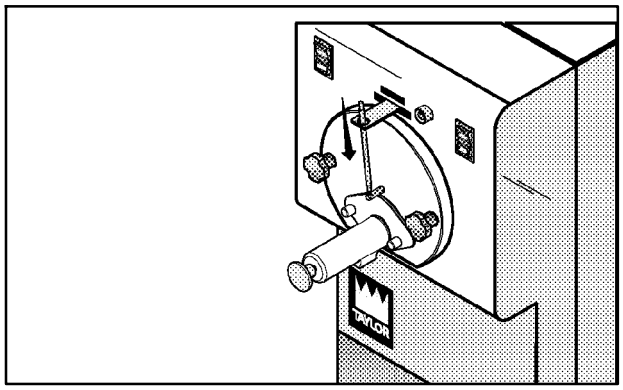


Figure 22

Step 8
Install the front drip tray and splash shield. Install the front drip tray and the splash shield under the door spout.

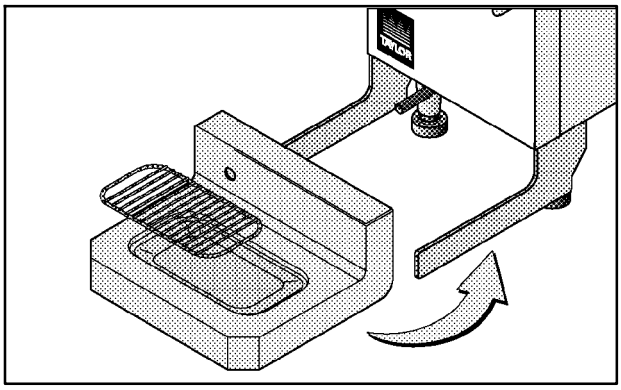


Figure 23

Sanitizing

Step 1
Fill System. Disconnect the product supply lines from the mix delivery container. Prepare a pail of approved 100 PPM sanitizing solution (examples: 2-1/2 gal. [9.5 liters] of Kay-5® or 2 gal. [7.6 liters] of Stera-Sheen®). USE WARM WATER AND FOLLOW THE MANUFACTURER'S SPECIFICATIONS. Pour the solution into a clean, empty mix delivery container. Connect the container to the mix delivery line.

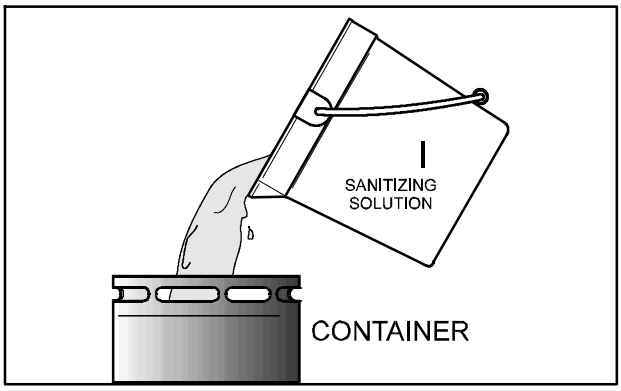


Figure 24

Place the control switch in the “WASH” position. Press the fill switch to activate the mix solenoid. The mix solenoid will remain open until the mix level float switch is satisfied. Drain sanitizer from the freezing cylinder and repeat this procedure until full strength solution is dispensed from the mix delivery container. Make sure all sanitizer is removed from the fill system. Place the fill switch in the “OFF” position and drain any remaining solution from the freezing cylinder.

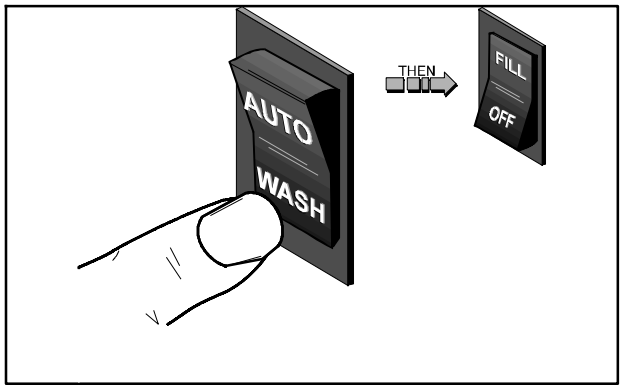


Figure 25

For units equipped with a post mix valve, the following procedure is to be used in place of Step 1 of the Sanitizing Procedure.

Prepare a pail of approved 100 PPM cleaning solution (examples: 2-1/2 gal. [9.5 liters] of Kay-5® or 2 gal. [7.6 liters] of Stera-Sheen®). USE WARM WATER AND FOLLOW THE MANUFACTURER’S SPECIFICATIONS. Pour the solution into a clean, empty mix delivery system container.

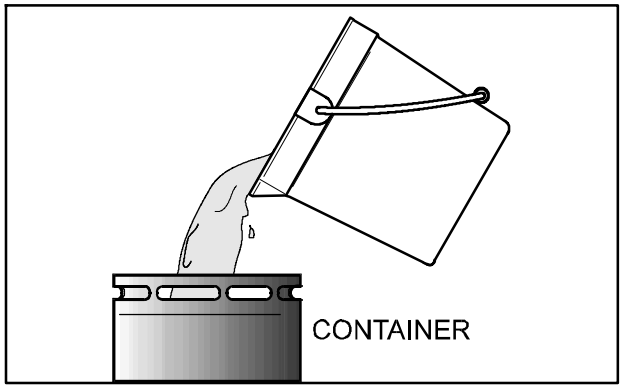


Figure 26

Place the control switch in the “WASH” position. Place the “FILL” switch in the “ON” position. To prime the fill valve, press and hold the area marked “PUSH” on the front of the post mix valve (prime button). After 10 seconds, release the valve and the cleaning solution will continue to flow until the mix float is satisfied or until the fill switch is turned to the “OFF” position.

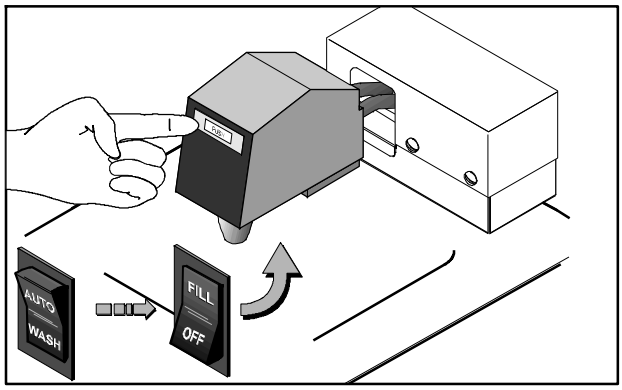


Figure 27

Note: If the cleaning solution does not continue to flow after releasing the prime button, press and hold the prime button for an additional ten (10) seconds. Repeat this procedure as required to prime the post mix valve.

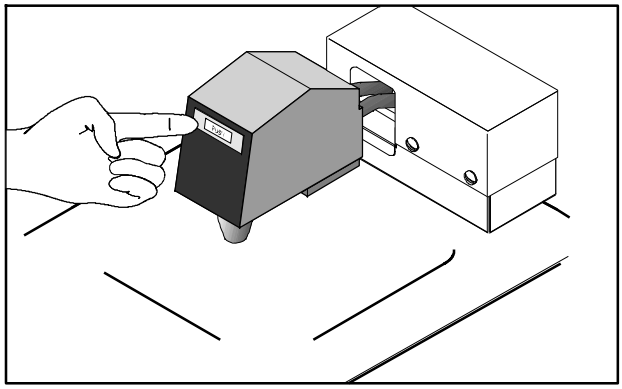


Figure 28

Drain the sanitizer from the freezing cylinder and repeat this procedure until all the cleaning solution is dispensed from the mix delivery container. Disconnect the mix delivery container.

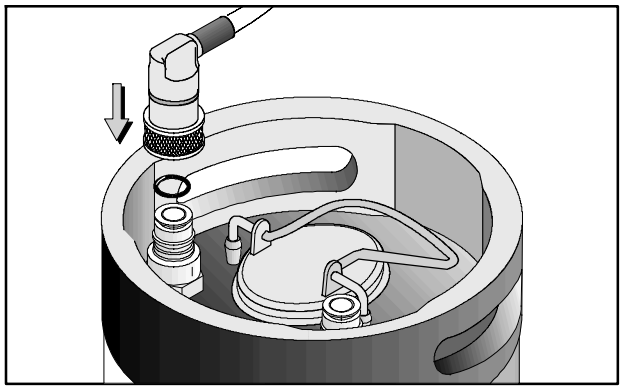


Figure 29

Step 2
Dispenser. Prepare a pail of approved 100 PPM sanitizing solution (examples: 2–1/2 gal. [9.5 liters] of Kay–5® or 2 gal. [7.6 liters] of Stera–Sheen®). USE WARM WATER AND FOLLOW THE MANUFACTURER'S SPECIFICATIONS. Remove the upper rear cover, and open the hopper cover. Pour the sanitizing solution into the hopper and allow the solution to flow into the freezing cylinder.

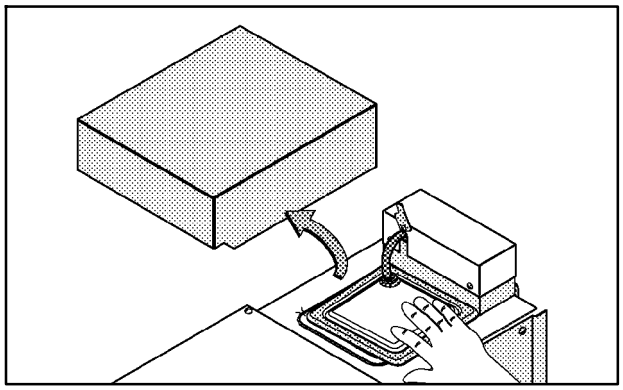


Figure 30

Step 3
Once the mix float switch is submerged in the sanitizing solution, brush clean the mix hopper, mix inlet hole, and mix level float switch.

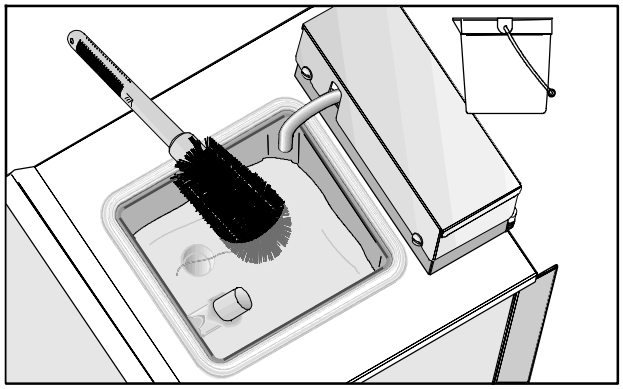


Figure 31

Step 4
Place the control switch in the "WASH" position. This will cause the sanitizing solution in the freezing cylinder to be agitated. Allow the solution to agitate for five minutes.

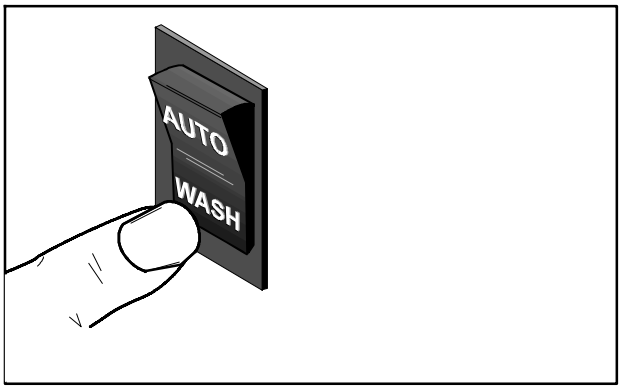


Figure 32

Step 5
Place the control switch in the "OFF" position. Place an empty mix pail beneath the door spout. Open the draw valve and draw off all of the sanitizing solution. When the sanitizer stops flowing from the door spout, close the draw valve.

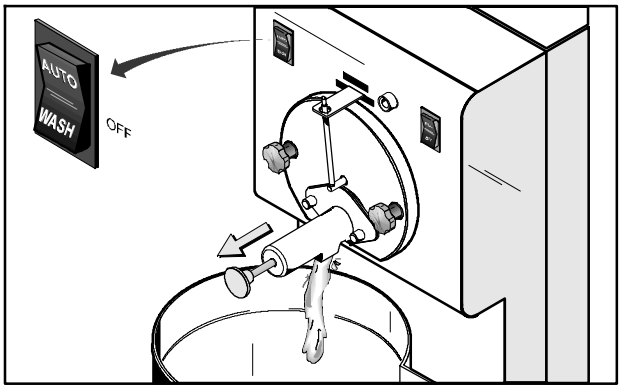


Figure 33

Step 6
Replace the hopper cover and the upper rear cover.

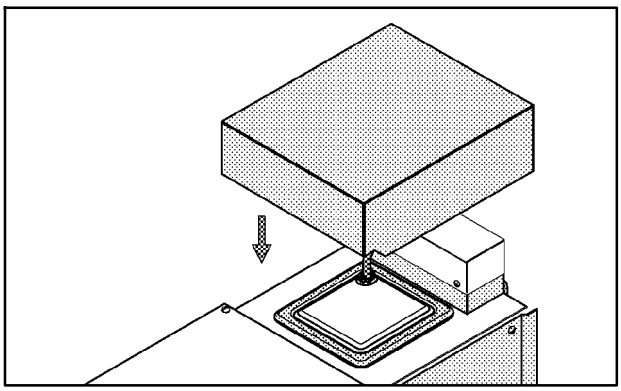


Figure 34

Priming

Step 1
With a mix pail beneath the door spout, open the draw valve. Press the fill switch to allow fresh product to flow into the freezing cylinder. This will force out any remaining sanitizing solution. When full strength product is flowing from the door spout, close the draw valve. Allow the freezing cylinder to fill until the mix level float switch has satisfied the fill system.

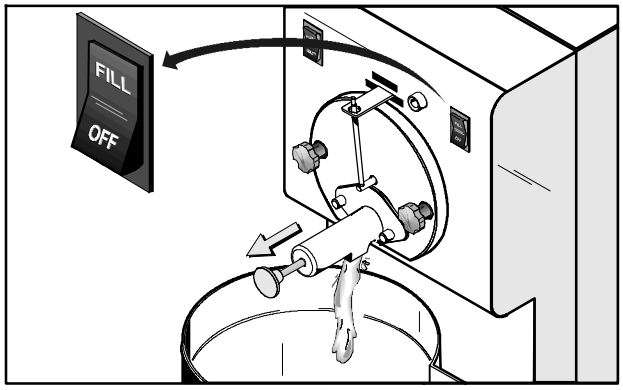


Figure 35

For units equipped with a post mix valve, the following procedure is to be used in place of Step 1 of the Priming Procedure.

With a pail beneath the door spout, open the draw valve. Place the “FILL” switch in the “ON” position. Press and hold the area labeled “PUSH” on the front of the post mix valve (prime switch). Release the valve after 10 seconds. Allow the product to flow out the draw valve until full strength product is delivered. This will force out any remaining sanitizing solution. Close the draw valve and allow the freezing cylinder to fill.

Step 2
Place the control switch in the “AUTO” position. When the unit cycles off, the product will be at serving viscosity. The viscosity (thickness) of the slush can be adjusted by turning the viscosity adjustment screw on the upper right of the front panel. Turn the viscosity adjustment screw clockwise for a thicker product, or counterclockwise for a thinner product. After making an adjustment, allow the refrigeration system to cycle 2 or 3 times to accurately evaluate the viscosity.

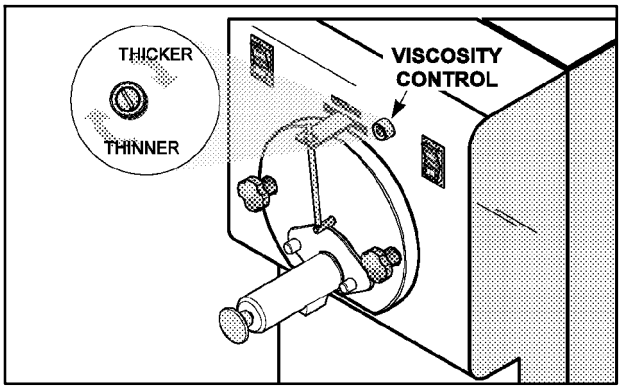


Figure 36

Note: In order for the refrigeration system to operate, the fill switch must be in the “ON” position while the control switch is in the “AUTO” position.

Closing Procedure

To disassemble the Model RD30, the following items will be needed:

- Two cleaning pails
- Necessary brushes provided with freezer
- Cleaner
- Single service towels

Draining Product From The Freezing Cylinder

Step 1
Turn the fill switch to the “OFF” position. Place the control switch in the “WASH” position as far ahead of cleaning time as possible. This will allow frozen product to soften for easier draining.

Step 2
With a sanitized mix pail beneath the door spout, open the draw valve. When all of the product has been drained from the mix hopper and freezing cylinder, close the draw valve. Make sure the control switch is in the “OFF” position.

Rinsing

Step 1
Remove the upper rear cover, and open the hopper cover.

Step 2
Pour **cool**, clean water into the mix hopper and allow it to flow into the freezing cylinder. With the brushes provided, scrub the mix hopper, mix inlet hole, and mix level float switch.

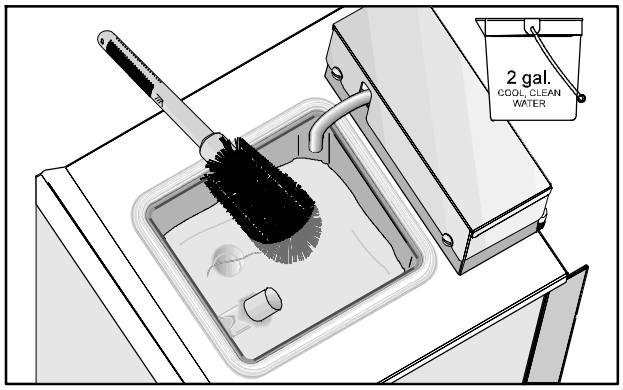


Figure 37

Step 3
Place the control switch in the “WASH” position. With a mix pail beneath the door spout, open the draw valve. Drain all the rinse water from the freezing cylinder. When the rinse water stops flowing from the door spout, close the draw valve and place the control switch in the “OFF” position.

Repeat this procedure until the rinse water being drawn from the freezing cylinder is **clear**.

Cleaning

Step 1
Prepare a pail of approved 100 PPM cleaning solution (examples: 2-1/2 gal. [9.5 liters] of Kay-5® or 2 gal. [7.6 liters] of Stera-Sheen®). USE WARM WATER AND FOLLOW THE MANUFACTURER’S SPECIFICATIONS.

Step 2
Pour the cleaning solution into the hopper and allow it to flow into the freezing cylinder.

Step 3
Once the mix float switch is submerged in the cleaning solution, brush clean the mix hopper, mix inlet hole, and mix level float switch.

Step 4
Place the control switch in the “WASH” position. This will cause the cleaning solution in the freezing cylinder to be agitated. Allow the solution to agitate for five minutes.

Step 5
Place the control switch in the “OFF” position. Place an empty mix pail beneath the door spout. Open the draw valve and draw off all of the cleaning solution. When the solution stops flowing from the door spout, close the draw valve.

Disassembly

MAKE SURE THE CONTROL SWITCH IS IN THE OFF POSITION. Failure to do so may result in personal injury or component damage.

Step 1
Remove the torque arm, handscrews, freezer door, beater assembly, scraper blades, torque rotor, and the drive shaft, and take these parts to the sink for cleaning.

Step 2
Remove the front drip tray and splash shield and take them to the sink for cleaning.

Brush Cleaning

Step 1
Prepare a sink with an approved cleaning solution in WARM WATER ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. Make sure all brushes provided with the freezer are available for brush cleaning.

Step 2
Remove the:

- seal and o-ring from the drive shaft.
- o-ring and front bearing from the freezer door.
- door spout from the freezer door.
- draw valve and spring from the door spout.
- o-ring from the draw valve.
- o-ring and guide bearing from the torque rotor.
- scraper blades from the scraper blade clips.

Note: To remove o-rings, use a single service towel to grasp the o-ring. Apply pressure in an upward direction until the o-ring pops out of its groove. With the other hand, push the top of the o-ring forward and it will roll out of the groove and can be removed easily .

Step 3
Thoroughly brush clean all disassembled parts in the cleaning solution making sure all lubricant and mix film is removed. Place all the cleaned parts on a clean dry surface to air dry.

Step 4
Return to the freezer with a small amount of cleaning solution. Brush clean the rear shell bearing with the black bristle brush.

Step 5
Wipe clean all exterior surfaces of the freezer.

Section 7 Important: Operator Checklist

During Cleaning and Sanitizing

ALWAYS FOLLOW LOCAL HEALTH CODES.

Cleaning and sanitizing schedules are governed by your State or local regulatory agencies and must be followed accordingly. The following check points should be stressed during the cleaning and sanitizing operations.

CLEANING AND SANITIZING MUST BE PERFORMED DAILY.

Troubleshooting Bacterial Count

☐ 1. Thoroughly clean and sanitize the machine regularly, including complete disassembly and brush cleaning.

☐ 2. Use all brushes supplied for thorough cleaning. The brushes are specially designed to reach all product passageways.

☐ 3. Use the white bristle brush to clean the mix inlet hole which extends from the mix hopper down to the rear of the freezing cylinder.

☐ 4. Use the black bristle brush to thoroughly clean the rear shell bearing located at the rear of the freezing cylinder. Be sure to have a generous amount of cleaning solution on the brush.

☐ 5. Using a screwdriver and cloth towel, keep the female square drive socket and rear shell bearing clean and free of lubricant and product deposits.

☐ 6. Properly prepare the cleaning and sanitizing solutions. Read and follow label directions carefully. Too strong of a solution may damage the parts and too weak of a solution will not do an adequate job of cleaning or sanitizing.

☐ 7. Clean and sanitize the product lines regularly to prevent syrup residue build-up that would restrict the proper flow of syrup.

☐ 8. On a regular basis, take a brix reading to assure a consistent, quality product (post mix valve systems only).

Regular Maintenance Checks

☐ 1. Replace scraper blades that are nicked or damaged.

☐ 2. Before installing the beater, be certain that the scraper blades are properly attached over the pins.

☐ 3. Check the rear shell bearing for signs of wear (excessive product leakage from the rear drip pans to the front drip tray).

☐ 4. Dispose of o-rings and seals if they are worn, torn, or fit too loosely, and replace with new ones.

☐ 5. Follow all lubricating procedures as outlined in “Assembly”.

☐ 6. If your machine is air cooled, check the condenser(s) for accumulation of dirt and lint. Dirty condensers will reduce the efficiency and capacity of the machine. Condensers should be cleaned **monthly.** Use a soft brush to clean between the fins. **Never** use screwdrivers or other metal probes to clean between the fins.
Note: For machines equipped with an air filter, it will be necessary to vacuum clean the filters on a monthly schedule.

Winter Storage

If the place of business is to be closed during the winter months, it is important to protect the freezer by following certain precautions, particularly if the building is subject to freezing conditions.

Disconnect the freezer from the main power source to prevent possible electrical damage.

Your local Taylor Distributor can perform this service for you.

Wrap detachable parts of the freezer such as beater, blades, drive shaft, and freezer door, and place in a protected dry place. Rubber trim parts and gaskets can be protected by wrapping them with moisture-proof paper. All parts should be thoroughly cleaned of dried mix or lubrication which attract mice and other vermin.

Section 8 Troubleshooting Guide

PROBLEM	PROBABLE CAUSE	REMEDY	PAGE REF.
1. No product is being dispensed with the draw valve open.	a. Product freeze-up due to improper product mixing.	a. Follow directions for mixing product carefully.	- -
	b. The torque arm is not installed.	b. Install the torque arm.	17
	c. Bent or improperly installed torque rotor.	c. Replace the bent rotor or follow proper assembly procedures.	14
2. The product is too thin.	a. Improper mixing of product.	a. Follow directions for mixing product carefully.	- -
	b. Missing, incorrectly installed, or worn scraper blades.	b. Replace or install the blades correctly.	14
	c. The viscosity adjustment screw needs to be adjusted.	c. Adjust the screw accordingly.	6, 12
	d. The torque rotor is bound leaving the torque arm in the cold position. Therefore, the compressor will not run.	d. Free the torque rotor.	- -
3. The product is too stiff.	a. The torque rotor bound leaving the torque arm in the warm position. Therefore, the compressor continually runs.	a. Free the torque rotor.	- -
	b. The torque arm is missing or bent.	b. Install or replace the torque arm.	17
	c. The viscosity adjustment screw needs to be adjusted.	c. Adjust the screw accordingly.	6, 12
	d. Improper mixing of product.	d. Follow directions for mixing product carefully.	- -

PROBLEM	PROBABLE CAUSE	REMEDY	PAGE REF.
4. The freezing cylinder walls are scored.	a. Broken beater pins.	a. Repair or replace the beater assembly.	– –
	b. The gear unit is out of alignment.	b. Contact a service technician.	– –
	c. The beater assembly is bent.	c. Repair or replace the beater assembly.	– –
	d. The door bearing is missing.	d. Install the door bearing.	16
5. Unable to remove the drive shaft.	a. There is lubrication on the square end of the drive shaft.	a. Do not lubricate the square end of the drive shaft. Contact a service technician for drive shaft removal.	13
	b. Rounded corners of the drive shaft, drive coupling or both components.	b. Replace the drive shaft, drive coupling or both components.	– –
6. Excessive mix leakage in the rear drip pan.	a. Improper or inadequate lubrication on the drive shaft o–ring or seal.	a. Use the correct lubricant (Taylor Lube) and follow proper lubrication procedures.	13
	b. Worn or missing o–ring or seal on the drive shaft.	b. Replace rubber parts every 3 months.	13
	c. Worn rear shell bearing.	c. Contact a service technician for component replacement.	– –
7. No freezer operation with the unit in the “AUTO” position.	a. The unit is unplugged.	a. Plug the power cord in the wall receptacle.	– –
	b. The beater motor has tripped the internal overload.	b. Place the toggle switch in the “OFF” position. Allow the motor to cool, then resume normal operation. Contact a service technician if the problem continues.	– –
	c. The fill switch is not in the “ON” position.	c. Place the fill switch in the “ON” position.	6
	d. The circuit breaker tripped or the fuse has blown.	d. Reset the circuit breaker or replace the blown fuse.	– –

PROBLEM	PROBABLE CAUSE	REMEDY	PAGE REF.
8. The unit is not freezing product when placed in the “AUTO” mode.	a. The torque rotor is bound, leaving the torque arm in the cold position. Therefore the compressor will not run.	a. Free the torque rotor.	– –
	b. The torque arm is bent.	b. Replace the torque arm.	– –
	c. The condensers are dirty.	c. Clean the condensers monthly.	23
	d. The fill system switch is not in the “ON” position.	d. Turn the fill switch to the “ON” position.	6
	e. There is a mix out condition.	e. Refill the mix system.	6
	f. The circuit breaker has tripped or the fuse has blown on the condensing unit.	f. Reset the circuit breaker or replace the blown fuse.	– –
9. The guide bearing is missing.	a. The guide bearing is stuck in the drive shaft.	a. Remove the guide bearing from the hole in the drive shaft.	– –
10. There is excessive leakage from the draw spout.	a. There is improper or inadequate lubrication on the draw valve o–rings.	a. Use the correct lubricant (Taylor Lube) and follow proper lubrication procedures.	15
	b. Worn or missing draw valve o–ring.	b. Replace rubber parts every 3 months.	13
11. The door is not easily installed.	a. Position of the beater assembly.	a. The open end of the beater assembly should be in the 11:00 o’clock position.	14

Section 9 Parts Replacement Schedule

PART DESCRIPTION	EVERY 3 MONTHS	EVERY 6 MONTHS	ANNUALLY
Scraper Blade		Inspect & Replace if Necessary	Minimum
Drive Shaft Seal	X		
Freezer Door O-Ring	X		
Door Port O-Ring	X		
Front Bearing	X		
Door Spout O-Ring	X		
Drive Shaft O-Ring	X		
Torque Arm O-Ring	X		
Brushes		Inspect & Replace if Necessary	Minimum

+ Available Separately

RD30

DESCRIPTION	PART NUMBER	RD30 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
ARM-TORQUE *340-1-2*	014500	1	103		
BEARING-FRONT	013116	1	000		
BEARING-GUIDE	014496	1	000		
BEARING-REAR SHELL *PLASTIC*	032511	1	000		
+GUIDE-DRIP SEAL	028992	1	000		
+NUT-BRASS BEARING	028991	1	000		
+O-RING-1-1/16 OD X .070 WALL	018432	1	000		
+WASHER-BEARING LOCK	012864	1	000		
BEATER A.-7QT-1 PIN-SUPPORT	X46233	1	103		
+BLADE-SCRAPER-PLASTIC 9-13/16L	046237	2	000		
+CLIP-SCRAPER BLADE	046238	2	103		
BELT-V-4L350	004194	1	000	J7040000/UP (REPLACES 003845)	117
BLOCK-TERMINAL 5 POLE	024329	1	103		
BLOCK-TERMINAL-7 POLE	022606	1	103		
BRUSH-DOUBLE ENDED-PUMP&FEED TUBE	013072	1	000		
BRUSH-DRAW VALVE 1”ODX2”X17”L	013073	1	000		
BRUSH-MIX PUMP BODY-3”X7”WHITE	023316	1	000		
BRUSH-REAR BRG 1IN.DX2IN.LGX14	013071	1	000		
BUSHING-ARM-TORQUE	049030	1	103	FRONT PANEL	
+RETAINER-CLIP	049054	1	103		
CAP-DUST-BULKHEAD COUPLING	048427	2	000		
CARD-WARRANTY/CHECKOUT	050252-W5	1	000		106
COUPLING-BULKHEAD-3/8OD-COPPER	048425	1	103	QD SOCKET-MALE (ON DISPENSER)	
COUPLING-BULKHEAD-5/8OD COPPER	048423	1	103	QD SOCKET-MALE (ON DISPENSER)	
COUPLING-TUBING-3/8 OD COPPER	048424	1	103	QD SOCKET-FEMALE (ON REFRIG. LINES)	
COUPLING-TUBING-5/8 OD COPPER	048422	1	103	QD SOCKET-FEMALE (ON REFRIG. LINES)	
COVER A.-SOLENOID	X49396	1	103		
COVER-FRONT-UPPER	049162	1	103		
COVER-HOPPER *RD30*	049081	1	103	WHITE PLASTIC	
COVER-REAR-&RD30*	049201	1	103		
DECAL-DEC-TAY380*RD30/355-45-6	045967	1	000		

+ Available Separately

DESCRIPTION	PART NUMBER	RD30 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
DECAL-REFRIGERATION-LIQUID	049205	1	000		
DECAL-REFRIGERATION-SUCTION	049204	1	000		
DIAGRAM-WIRING *RD30*	049179-12	1	000	115V-60-1	
DIAGRAM-WIRING *RD30*	049179-40	1	000	220-240V-50-1	
DOOR A.-PARTIAL	X50172	1	103		
+KNOB-DRAW VALVE-BLACK PLASTIC	047358	1	103		
+O-RING 5.5”OD X 5.234ID X.139W	049077	1	000	DOOR GASKET	
+PLATE-DRAW SPOUT MOUNTING	049275	1	103		
+SCREW-1/4-20X9/16 THUMB-300 SS	047632	2	000	DRAW PLATE	
+SPOUT-DOOR ZERO WASTE *RD30*	049276	1	103		
+O-RING-2.375 OD X 1/16W	046830	1	000		
+SPRING-COMP.845X.055X3.5-SS	047357	1	103		
+VALVE-DRAW *380/1*ZERO WASTE	047353	1	103		
+O-RING-7/8 OD X .103W	014402	1	000		
DRAIN A.-TUBE	X49251	1	103	TO FRONT DRIP TRAY	
DRYER-FILTER-HP62-3/8 X 1/4S	048901	1	000		
FLANGE-MOUNTING	048426	2	103	HOLDS QD'S IN PLACE	
GASKET-FRONT PANEL	049031	1	103	AROUND SHELL ASSY/FRONT PANEL	
GASKET-INSULATOR-COUPLING	049055	2	000	UNDER FLANGE	
GEAR A.*REDUCER	015985	1	212		
KIT A.-TUNE UP *RD30*	X48961	1	000		
BEARING-FRONT	013116	1	000		
BEARING-GUIDE	014496	1	000		
O-RING 5.5”OD X 5.234ID X.139W	049077	1	000	DOOR GASKET	
O-RING-.291 ID X .080W	018550	1	000	TORQ ASSY	
O-RING-2.375 OD X 1/16W	046830	1	000	DOOR SPOUT	
O-RING-3/8 OD X .070W	016137	3	000	FILL MANIFOLD FITTINGS	
O-RING-7/8 OD X .103W	014402	1	000	DRAW VALVE	
O-RING-7/8 OD X .139W	025307	1	000	BEATER DRIVE SHAFT	
SEAL-DRIVE SHAFT	032560	1	000		
LABEL-CAUTION MOTOR	051330	1	000	J7040000/UP	117
LABEL-SW-AUTO/OFF/WASH-SYMBOLS	049086	1	000		
LABEL-SW-FILL/OFF-SYMBOLS	049087	1	000		

+ Available Separately

DESCRIPTION	PART NUMBER	RD30 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
LABEL-WARNING-COVER	51433	3	000		
LEG A.-4”-3/8-16 STUD-W/CAP	X43408	4	103		
LEG-4”-3/8-16 STUD	036397	4	103		
CAP-RUBBER	037268	4	000		
LIGHT-MIX OUT-AMBER	050036-12	1	103	J6020000/UP (115V-60-1)	103
LIGHT-MIX OUT-AMBER	050036-27	1	103	J6020000/UP (220-240V-50-1)	103
LIGHT-MIX OUT-RED-RECTANGULAR	047142-12	1	103	J6019999/PRIOR	103
LIP-DRIP-NOSE CONE	036435	1	000		
LUBRICANT-TAYLOR HI PERF-4 OZ	048232	1	000		
MANIFOLD A.-FILL *RD30*	X49200	1	103		
BRACKET A.-SOLENOID VALVE	X49133	1	103	ASSEMBLY HOUSING	
BRACKET-SUPPORT FILL TUBE	049220	1	103		
BUSHING-1/4 NPT TO 3/8 BORE	049214	2	103	SOLENOID COUPLINGS	
CLIP-ADAPTOR *RD30*	049082	1	103	HOLDS DOWN ELBOW ASSY.	
ELBOW-3/8 O-RING X BARB 1/4 BARB-SS	049384	1	103	CONNECTS TO SYRUP LINE	
FITTING-SYRUP	049079	1	103	BETWEEN SOLENOID/ELBOW ASSY.	
FITTING A. *RD30*	X49217	1	103		
O-RING-3/8 OD X .070W	016137	3	000	FITTING/ELBOW/FILL TUBE	
VALVE-SOLENOID-3/16”ORIFICE-SS	041589-03	1	103		
MOTOR-1/2 HP (BEATER MOTOR)	024839-12	1	212	115V-60-1 J7040000/UP (REPLACES 049397-12)	117
+LABEL-CAUTION-MOTOR	051330	1	000	J7040000/UP	117
+FAN-4 BLADE 4” PUSH	050037	1	103	J6034193/UP	105
MOTOR-1/2 HP (BEATER MOTOR)	024839-34	1	212	220-240V-50-1 J7040000/UP (REPLACES 049397-34)	117
+FAN-4 BLADE 4” PUSH	050037	1	103	J6034193/UP	105
NUT-STUD *380*	045644	2	103		
PAIL-6 QT.	023348	1	000		
PAN A.-DRIP	X49076	1	103	REAR SHELL BEARING	
PANEL A.-FRONT *RD30*	X49760	1	103	J6020000/UP	103
PANEL A.-FRONT *RD30*	X48770	1	103	J6019999/PRIOR	103
PANEL A.-REAR *RD30*	X48983	1	103		
PANEL-SIDE-LEFT *RD30*	048975	1	103		
PANEL-SIDE-RIGHT *RD30*	048977	1	103		

+ Available Separately

DESCRIPTION	PART NUMBER	RD30 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
PULLEY-AK30 X 5/8	033559	1	103	BEATER MOTOR	
PULLEY-AK64-5/8	007538	1	103	GEAR	
RELAY-DPDT-20 A-120V	026581-12	1	103	REFRIGERATION SOLENOID (115V-60-1)	
RELAY-DPDT-20 A-230V	026581-27	1	103	REFRIGERATION SOLENOID (220-240V-50-1)	
RELAY-DPDT-20 A-24VAC	026581-03	1	103	MIX OUT	
RESISTOR A.-3W	X49299	1	103	7 POLE TERMINAL BLOCK	
SANITIZER KAY-5 CASE 125 PACKETS	041082	1	000		
SHAFT-BEATER *341-2 RFB*	035418	1	103		
+O-RING-7/8 OD X .139W	025307	1	000		
+SEAL-DRIVE SHAFT	032560	1	000		
SHELL A.-INSULATED *RD30*	X49672	1	512	J6020000/UP	103
SHELL A.-INSULATED *RD30*	X49011	1	512	J6019999/PRIOR	103
+STUD-FREEZER *8663*	034035	2	103		
+WASHER-FREEZER STUD	049032	2	000		
SHIELD-SPLASH	049203	1	103		
SUPPORT-TRAY RIGHT	049057	1	103		
+SPACER-BASE PAN-PLASTIC	049136	1	103		
SUPPORT-TRAY-LEFT	049056	1	103		
+SPACER-BASE PAN-PLASTIC	049136	1	103		
SWITCH A.-TORQUE *RD30*	X49735-SER	1	103	J6020000/UP	103
ARM-UNIVERSAL-TORQUE SWITCH	049738	1	103		
BRACKET-CONTROL *RD30*	049740	1	103		
BUSHING-ARM-TORQUE	049737	1	103		
BUSHING-CONTROL *RD30*	049046	1	103		
BUSHING-PIVOT-TORQUE ARM	049739	1	103		
BUSHING-SPRING ADJ.-TORQUE	050025	1	103		
INSULATOR-ARMITE-4 HOLE	012992	1	000		
NUT-10-32 MF LOCK	020983	1	000		
RING-RETAINING-EXTERNAL AXIAL	049736	1	103		
SCREW-10-32X1-3/4 RHM-SS	013195	1	000		
SPRING-TORQUE.375X.037X2 1.9#/	035912	1	103		
SWITCH-LEVER-SPDT-20A-125-480V	027026	1	103		
SWITCH A.-TORQUE *RD30*	X48771	1	103	J6019999/PRIOR	103

+ Available Separately

DESCRIPTION	PART NUMBER	RD30 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
BRACKET-CONTROL *RD30*	049047	1	103		
BUSHING-1/2OD X 3/8ID-PLASTIC	014474	2	000	PIVOT HUB	
BUSHING-CONTROL *RD30*	049046	1	103	TORQ ADJUSTMENT SCREW	
HUB A.-ARM *RD30*	X49045	1	103		
HUB-PIVOT	014475	1	103		
NUT-1/4-20 MF LOCK	017523	1	000	PIVOT HUB	
NUTSERT-10-32/.130-.225 GRIP	047873	1	103	ADJUSTMENT SCREW/SPRING	
SCREW-10-32X1-3/4 RHM-SS	013195	1	000	ADJUSTMENT SCREW	
SPRING-TORQUE*BLACK*	015007	1	103		
SWITCH-LEVER-SPDT-20A-125-480V	027026	1	103		
SWITCH-FLOAT-MIX LEVEL	049060	1	103		
SWITCH-ROCKER DPDT ,ON/OFF/ON	049059	1	103	AUTO/OFF/WASH	
+SEAL-PANEL-ROCKER SWITCH	048421	1	000		
SWITCH-ROCKER DPST ,ON/OFF	049072	1	103	FILL SWITCH	
+SEAL-PANEL-ROCKER SWITCH	048421	1	000		
TAB-LOCKING-PRODUCT TUBE	049419	1	103		
TEE-ACCESS 3/8	026687	1	103		
TEE-ACCESS 5/8	026689	1	103		
TIMER A.-MIX OUT	X49541-12	1	103	115V-60-1	
TIMER A.-MIX OUT	X49541-27	1	103	220-240V-50-1	
TIMER-DELAY ON BREAK 10SEC	049558-12	1	103		
TIMER-DELAY ON BREAK-2 SEC	048960-03	1	103	MIX LEVEL	
TIMER-DELAY ON MAKE 2 SEC.	030667-12	1	103	TORQ SWITCH J6019999/PRIOR	
TORQUE ASSEMBLY	X49022	1	103		
+O-RING-.291 ID X .080W	018550	1	000		
TRANS.-120/208/240 PRI 24V SEC	051660	1	103		
TRAY A.-DRIP *RD30*	X49182	1	103		
TUBE-VINYL 3/8 ID X 9/16 OD	020943-20	1	000	BULK UNDER P/N R30315	
VARISISTOR A.-130VAC	X49300	2	103	MIX OUT TIMER ASSY (115V-60-1)	
VARISISTOR A.-280VAC	X34664	2	103	MIX OUT TIMER ASSY (220-240V-50-1)	
VARISTOR A.-SLEEVE TERMINAL	X31547	1	103	MIX LEVEL TIMER ASSY	
VALVE-EXP-AUTO-1/4S X1/4 FPT	046365	1	103		
+BOOT-EXPANSION VALVE	050900	1	000		

+ Available Separately

DESCRIPTION	PART NUMBER	RD30 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
VALVE-SOLENOID-7/64ORF X 1/4S	043449-	1	103	J8012411/UP (FOR LIQUID LINE)	125
+BRACKET-SOLENOID	047303	1	103	J8012411/UP	125
VALVE-SOLENOID-REFRIGERATION	048952-12	1	103	115V-60-1	
VALVE-SOLENOID-REFRIGERATION	048952-27	1	103	220-240V-50-1	
SYRUP TANKS					
TANK-SYRUP-5 GAL W/QD PLUGS	015699		103		
TANK-SYRUP-10 GAL W/QD PLUGS	037870		103		
OPTIONAL MANIFOLD ASSEMBLIES					
MANIFOLD A.-POST MIX *RD30*	X49434 OR X50196	1	103		
MANIFOLD A. *RD30*	X49083	1	103		
FLOAT A.-FLOW CONTROL *RD30*	X49836	1	103		
CLIP-ADAPTOR *RD30*	049082	2	103		
CONTROL-FLOW-LEV W/SWITCH	049122-03	1	103	X49434 ONLY - COKE (LEV)	
CONTROL-FLOW-FLOWMATIC	050288-03	1	103	X50196 ONLY - GENERAL MARKET	
ELBOW-3/8 ORING X 1/4 BARB-SS	049384	2	103		

+ Available Separately

RC25

DESCRIPTION	PART NUMBER	RC25 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
BOOT-ROTOLOCK VALVE	037116	1	000	J7032493/PRIOR (TECUMSEH)	
BLOCK-TERMINAL 2P-L1,L2	039422	1	103	J7032493/UP (BRISTOL)	
CAP-DUST-BULKHEAD COUPLING	048427	2	000		
COMPRESSOR	049512-27	1	512	J7032493/PRIOR (TECUMSEH)	
+CAPACITOR-RUN	048132	1	103		
+CAPACITOR-START	036048	1	103		
+RELAY-START-COMPRESSOR	036047	1	103		
COMPRESSOR L63A113BBCA	048259-27	1	512	J7032493-J9097565 (BRISTOL)	
+CAPACITOR-RUN	012906	1	103		
+CAPACITOR-START	031790	1	103		
+RELAY-START-COMPRESSOR	038145	1	103		
COMPRESSOR CS18K6E-PFV-238	052397-27	1	512	J9097566/UP (COPELAND)	
+CAPACITOR-RUN- 35UF/370V	029439	1	103		
+CAPACITOR-START-216-259UF/250V	031304	1	103		
+RELAY-START-COMPRESSOR	052401-27	1	103		
CONDENSER	049516	1	103	J7032493/PRIOR (TECUMSEH)	
CONDENSER	048629	1	103	J7032493/UP	
COUPLING-BULKHEAD-3/8OD-COPPER	048425	1	103	QD SOCKET-MALE (ON CONDENSER)	
COUPLING-BULKHEAD-5/8OD COPPER	048423	1	103	QD SOCKET-MALE (ON CONDENSER)	
COUPLING-TUBING-3/8 OD COPPER	048424	1	103	QD SOCKET-FEMALE (ON REFRIGERANT LINES)	
COUPLING-TUBING-5/8 OD COPPER	048422	1	103	QD SOCKET-FEMALE (ON REFRIGERANT LINES)	
DECAL-REFRIGERATION-LIQUID	049205	1	000		
DECAL-REFRIGERATION-SUCTION	049204	1	000		
FLANGE-MOUNTING	048426	2	103	HOLDS QD'S IN PLACE	
GASKET-INSULATOR-COUPLING	049055	2	000	UNDER FLANGE	
HEATER-COMPRESSOR CRANKCASE	049518	1	103		
INDICATOR-LIQUID-3/8 S	049170	1	103		
LEG A.-4"-3/8-16 STUD-W/CAP	X43408	4	103		
+LEG-4"-3/8-16 STUD	036397	4	103		
+CAP-RUBBER	037268	4	000		
MOTOR-FAN	049513-27	1	103	J7032493/PRIOR (TECUMSEH)	

+ Available Separately

DESCRIPTION	PART NUMBER	RC25 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
+FAN-BLADE CONDENSER *RC25*	049515	1	103		
MOTOR-FAN	050265-27	1	103	J7032493/UP (BRISTOL & COPELAND)	
+FAN-5 BLADE 12" PULL 26 DEG CW	031532	1	103		
PANEL-BACK & SIDE *RC25*	049164	1	103	J7032493/PRIOR (TECUMSEH)	
PANEL-BACK & SIDE *RC25*	050162	1	103	J7032493/UP	
PANEL-CORNER	050160	1	103	J7032493/UP	
PANEL-FRONT-TOP	050161	1	103	J7032493/UP	
PANEL-SERVICE-SIDE	050159	1	103	J7032493/UP	
PANEL-SIDE *RC25*	049165	1	103	J7032493/PRIOR (TECUMSEH)	
PANEL-TOP *RC25*	049166	1	103	J7032493/PRIOR (TECUMSEH)	
PANEL-TOP *RC25*	050158	1	103	J7032493/UP	
RECEIVER-REFRIGERANT 10#	050182	1	103		
SWITCH-PRESSURE-DUAL	049514	1	103	J7032493/PRIOR (TECUMSEH) - PUMP DOWN/ H.P.	
SWITCH-PRESSURE-DUAL	050358	1	103	J7032493/UP - PUMP DOWN/H.P.	
TEE-ACCESS 3/8	026687	1	103	FOR EXTERNAL REFRIG. LINES	
TEE-ACCESS 5/8	026689	1	103	FOR EXTERNAL REFRIG. LINES	
VALVE-ACCESS 1/4FL X 3/8SDR-	044455	1	103	J7032493/UP	
VALVE-REGULATOR CPR 5/8S	025780	1	103	J7032493/UP	
OUTDOOR UNITS					
LEG-SUPPORT REMOTE CONDENSING	050166	4	103		
VALVE-HEAD PRESSURE	049885	1	103		
50 Hz					
BLOCK-TERMINAL 2P-L1,N	039421	1	B	TECUMSEH, BRISTOL & COPELAND	
COMPRESSOR	048259-40	1	512	J7032493-J9038118 (BRISTOL)	
+CAPACITOR-RUN	023739	1	103		
+CAPACITOR-START	031790	1	103		
+RELAY-START-COMPRESSOR	038146	1	103		
COMPRESSOR CS18K6E-PFJ-238	052397-40	1	512	J9038119/UP (COPELAND)	

+ Available Separately

DESCRIPTION	PART NUMBER	RC25 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
+CAPACITOR-RUN- 45UF/370V	52400	1	103		
+CAPACITOR-START-145-175UF/250V	052399	1	103		
+RELAY-START-COMPRESSOR	052401-27	1	103		
CONDENSER	048629	1	103	ALL	
CONTROL-DUAL PRESSURE	050358	1	103	ALL	
MOTOR-FAN	050265-40	1	103		
+BLADE-FAN	031532	1	103		
PANEL-BACK & SIDE *RC25*	050162	1	103	ALL	
PANEL-CORNER	050160	1	103	ALL	
PANEL-FRONT-TOP	050161	1	103	ALL	
PANEL-SERVICE-SIDE	050159	1	103	ALL	
PANEL-TOP *RC25*	050158	1	103	ALL	

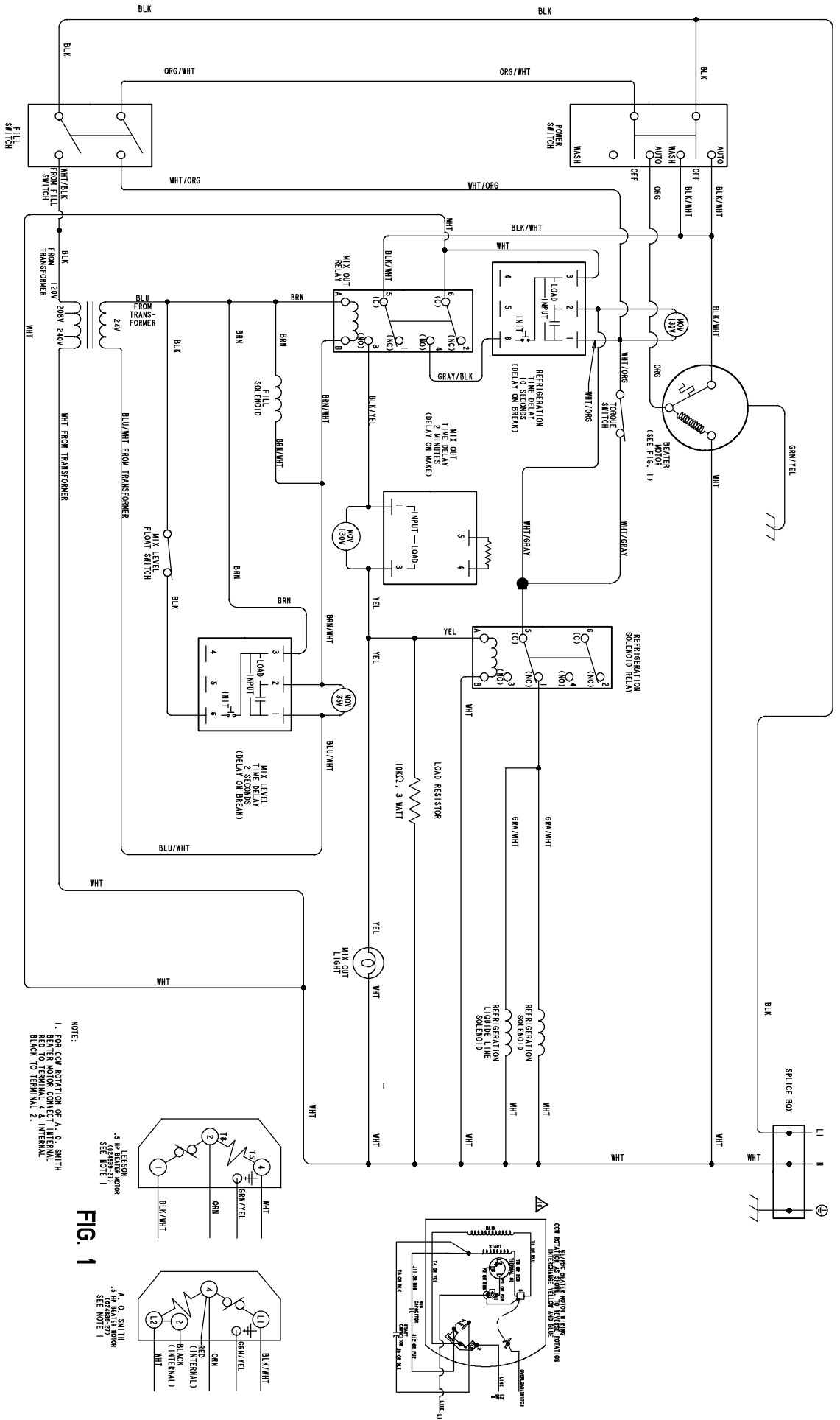
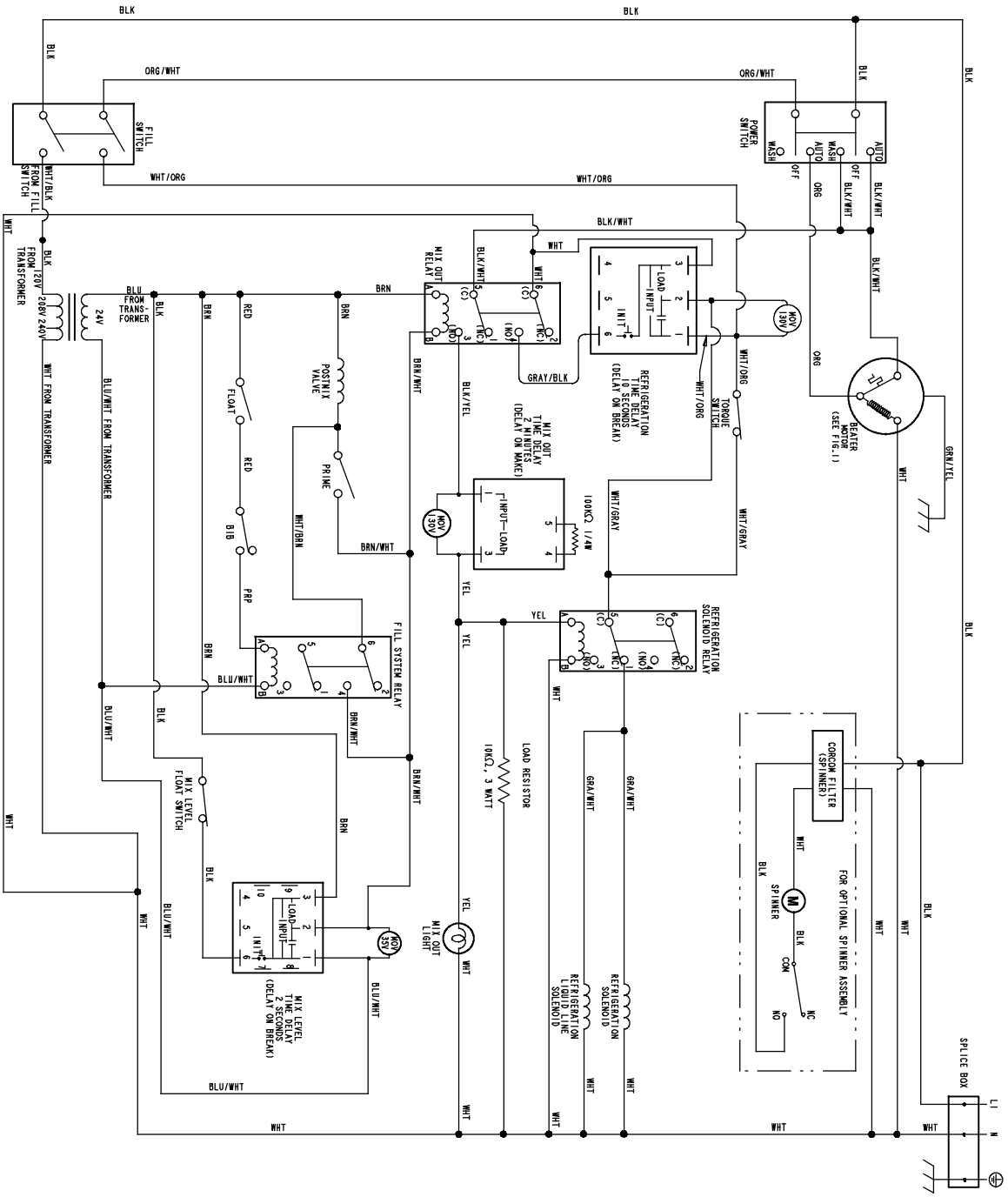


FIG. 1

Model RD30
049179-12
Rev. 8/11



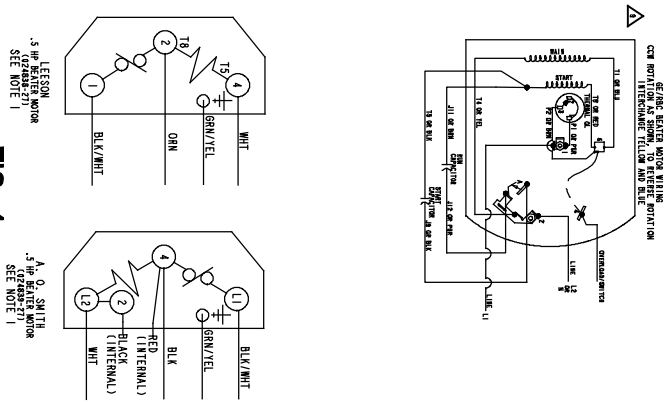


FIG. 1

Model RD30
049179-12C
Rev. 8/11

Model RD30
049179-40
Rev. 8/11